

# American Heart Journal

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- Coronary angioplasty at the time of initial catheterization using small diagnostic catheters (Panayiotou et al). 1990;119:204-5 (Brief comm.)
- Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54
- Hemodynamics and coronary blood flow during experimental aortic valvuloplasty: comparison of the dual versus the single catheter methods (Moore et al). 1990;119:136-42
- Myocardial protection with autoperfusion during prolonged coronary artery occlusion (Zalewski et al). 1990;119:41-6
- Pulmonic balloon valvuloplasty in adults (Sherman et al). 1990;119:186-90 (Brief comm.)
- Repeat coronary angioplasty during the same angiographic diagnosis of coronary stenosis (Alfonso et al). 1990;119:237-41
- Restenosis following coronary angioplasty (Fanelli and Aronoff). 1990;119:357-68 (Curriculum cardiol.)

# **Angioplasty, transluminal, adverse effects**

- Comparative analysis of coronary angiographic morphology following restenosis (Klein et al). 1990;119:35-41

# **Angioplasty, transluminal, percutaneous coronary**

- Acute myocardial infarction complicating percutaneous aortic valvuloplasty successfully treated by percutaneous coronary angioplasty (Romanello et al). 1990;119:953-5 (Brief comm.)
- Emergency PTCA for coronary artery occlusion after blunt chest trauma (Sigmund et al). 1990;119:1408-10 (Brief comm.)
- Late hemodynamic changes in percutaneous mitral valvuloplasty (Pektas et al). 1990;119:112-20
- One-year outcome after therapy with tissue plasminogen activator: report from the Thrombolysis and Angioplasty in Myocardial Infarction trial (Califf et al). 1990;119:777-85
- Percutaneous transluminal coronary angioplasty in silent ischemia (Tuzcu et al). 1990;119:797-801
- Percutaneous valvuloplasty as a treatment for aortic and mitral valve disease (Strauss and Marquis). 1990;119:1184-92 (Prog. cardiol.)
- PTCA of chronically occluded coronary arteries (Laarman et al). 1990;119:1153-60 (Curriculum cardiol.)
- PTCA of the left coronary artery when the right coronary artery is chronically occluded (Teirstein et al). 1990;119:479-83
- The role of antiplatelet agents in modifying the extent of restenosis following percutaneous transluminal coronary angioplasty (Schwartz et al). 1990;119:232-6
- Serial evaluation of ventricular function after percutaneous aortic balloon valvuloplasty (Harpole et al). 1990;119:130-5
- Short- and long-term outcome of percutaneous transluminal coronary angioplasty in chronic dialysis patients (Kahn et al). 1990;119:484-9

# **Angioplasty, transluminal, percutaneous coronary—Cont'd**

- The spectrum of symptomatic coronary air embolism during balloon angioplasty: causes, consequences and management (Kahn and Hartzler). 1990;119:1374-7 (Curriculum cardiol.)
- ST deviation in right chest leads V<sub>3</sub>R to V<sub>7</sub>R during percutaneous transluminal coronary angioplasty (Andersen et al). 1990;119:490-3
- Successful percutaneous removal of retained probe balloon wire during coronary angioplasty (Yeon et al). 1990;119:1201-5 (Brief comm.)
- Tissue plasminogen activator followed by percutaneous transluminal coronary angioplasty: one-year TIMI phase II pilot results (Chaitman et al). 1990;119:213-20
- Value of immediate angioplasty after intravenous streptokinase in acute myocardial infarction (El Deeb et al). 1990;119:786-90
- Walk-through angina treated by percutaneous transluminal coronary angioplasty: electrocardiographic, radionuclide, and angiographic correlations (Ratner and Schwartz). 1990;119:390-2 (Brief comm.)

# **Angioplasty, transluminal, percutaneous coronary, adverse effects**

- Aortic rupture following percutaneous catheter balloon coarctoplasty in an adult (Kulick et al). 1990;119:190-3 (Brief comm.)
- Iatrogenic Lutembacher's syndrome after percutaneous transluminal mitral valvotomy (Chen et al). 1990;119:209-11 (Brief comm.)
- Long-term outcome of unsuccessful percutaneous transluminal coronary angioplasty (Tuzcu et al). 1990;119:791-6
- Successful percutaneous removal of retained probe balloon wire during coronary angioplasty (Yeon et al). 1990;119:1201-5 (Brief comm.)

# **Angioscopy; see Microscopy**

# **Anomalous origin of coronary artery; see Coronary vessel anomalies**

# **Anti-arrhythmia agents; see also; specific agents**

- Acute treatment of torsades de pointes with amiodarone: proarrhythmic and antiarrhythmic association of QT prolongation (Rankin et al). 1990;119:185-6 (Brief comm.)
- Barucanide, a novel class Ib antiarrhythmic agent with a slow kinetic property: electrophysiologic observations in isolated canine and rabbit cardiac muscle (Takanaka and Singh). 1990;119:1050-60
- Benefit and risks of long-term amiodarone therapy for sustained ventricular tachycardia/fibrillation: minimum of three-year follow-up in 145 patients (Myers et al). 1990;119:8-14
- Efficacy and safety of moricizine in patients with congestive heart failure: a summary of the experience in the United States (Pratt et al). 1990;119:1-7
- Enoximone (Treese and Pop). 1990;119:1450 (Letter)
- Parasympathetically modulated antiarrhythmic action of lidocaine in atrial fibrillation (David et al). 1990;119:1061-8

# **Antibiotics**

- Influence of anti-beta-receptor antibodies on cardiac adenylate cyclase in patients with idiopathic dilated cardiomyopathy (Limas et al). 1990;119:1322-8

# **Antibodies, monoclonal**

- Appearance of atrial natriuretic peptide in the ventricles in patients with myocardial infarction (Jougasaki et al). 1990;119:92-6

# **Anticoagulants**

- The effects of long-term antithrombotic treatment on left ventricular thrombi in patients after an acute myocardial infarction (Kouvaras et al). 1990;119:73-8
- Fatal cardiac tamponade in systemic lupus erythematosus—a hazard of anticoagulation (Leung et al). 1990;119:422-3 (Brief comm.)
- Intravenous nitroglycerin-induced heparin resistance: a qualitative antithrombin III abnormality (Becker et al). 1990;119:1254-61

# **Antifibrinolytic agents**

- The bleeding time: its potential utility among patients receiving thrombolytic therapy (Hirsch and Goldhaber). 1990;119:158-67 (Curriculum cardiol.)

# **Antihypertensive agents**

- Nicardipine and propranolol in the treatment of hypertension: similar antihypertensive but dissimilar hemodynamic actions (Ram et al). 1990;119:463-7 (Symposium)
- Selection of antihypertensive therapy (Richards et al) (Letter); (Houston) (Reply). 1990;119:1446-8

**Antihypertensive agents—Cont'd**

Treating hypertension and cardiovascular risk: Are there trade-offs? (Grimm). 1990;119:729-32 (Symposium)

**Antiplatelet agents; see Platelet aggregation inhibitors****Antithrombin III**

Intravenous nitroglycerin-induced heparin resistance: a qualitative antithrombin III abnormality (Becker et al). 1990;119:1254-61

**Antithrombins**

The effects of long-term antithrombotic treatment on left ventricular thrombi in patients after an acute myocardial infarction (Kouvaras et al). 1990;119:73-8

**Aorta, thoracic**

Diagnosis and documentation of healing in descending thoracic aortic dissection by transesophageal echocardiography and Doppler color flow imaging (Hixson et al). 1990;119:1432-5 (Brief comm.)

Use of coronary arteriography in the preoperative management of patients undergoing urgent repair of the thoracic aorta (Kern et al). 1990;119:143-8

**Aortic aneurysm**

Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)

Ascending aortic aneurysm masquerading as fever, altered mental status, and mediastinal mass (Fredman et al). 1990;119:408-10 (Brief comm.)

Use of coronary arteriography in the preoperative management of patients undergoing urgent repair of the thoracic aorta (Kern et al). 1990;119:143-8

**Aortic coarctation**

Aortic rupture following percutaneous catheter balloon coarctoplasty in an adult (Kulick et al). 1990;119:190-3 (Brief comm.)

*Moraxella* endocarditis following balloon angioplasty of aortic coarctation (Sanyal et al). 1990;119:1421-3 (Brief comm.)

**Aortic diseases**

Use of coronary arteriography in the preoperative management of patients undergoing urgent repair of the thoracic aorta (Kern et al). 1990;119:143-8

**Aortic dissection; see Aortic rupture****Aortic regurgitation; see Aortic valve insufficiency****Aortic rupture**

Aortic rupture following percutaneous catheter balloon coarctoplasty in an adult (Kulick et al). 1990;119:190-3 (Brief comm.)

Diagnosis and documentation of healing in descending thoracic aortic dissection by transesophageal echocardiography and Doppler color flow imaging (Hixson et al). 1990;119:1432-5 (Brief comm.)

Use of coronary arteriography in the preoperative management of patients undergoing urgent repair of the thoracic aorta (Kern et al). 1990;119:143-8

**Aortic sinus; see Sinus of Valsalva****Aortic valve**

Absent aortic valve in hypoplastic left heart syndrome (Parikh et al). 1990;119:977-8 (Brief comm.)

**Aortic valve insufficiency**

Aortic regurgitation in Crohn's disease (O'Mahony et al) (Letter); (Leung) (Letter); (Burdick and Tresch) (Reply). 1990;119:1444-6

Assessment of supra-valvular abnormal signal with color Doppler flow mapping in patients with aortic regurgitation (Okamoto et al). 1990;119:339-43

Transesophageal echocardiographic recognition of mitral valve abnormalities associated with aortic valve endocarditis (Karlalis et al). 1990;119:1209-11 (Brief comm.)

**Aortic valve stenosis**

Acute myocardial infarction complicating percutaneous aortic valvuloplasty successfully treated by percutaneous coronary angioplasty (Romanello et al). 1990;119:953-5 (Brief comm.)

Percutaneous valvuloplasty as a treatment for aortic and mitral valve disease (Strauss and Marquis). 1990;119:1184-92 (Prog. cardi.)

Progression of aortic stenosis in adults: new appraisal using Doppler echocardiography (Roger et al). 1990;119:331-8

Serial evaluation of ventricular function after percutaneous aortic balloon valvuloplasty (Harpole et al). 1990;119:130-5

**Aortic valve stenosis—Cont'd**

Successive percutaneous double-balloon mitral, aortic, and tricuspid valvotomy in rheumatic trivalvular stenoses (Konugres et al). 1990;119:663-6 (Brief comm.)

**Aortic valve stenosis, animal**

Hemodynamics and coronary blood flow during experimental aortic valvuloplasty: comparison of the dual versus the single catheter methods (Moore et al). 1990;119:136-42

**Aortocoronary bypass; see Coronary artery bypass****Arrhythmia**

Adenosine or adenosine triphosphate for supraventricular tachycardias? Comparative double-blind randomized study in patients with spontaneous or inducible arrhythmias (Rankin et al). 1990;119:316-23

Atrial and ventricular arrhythmias in asymptomatic active elderly subjects: correlation with left atrial size and left ventricular mass (Manyari et al). 1990;119:1069-76

Effect of acute hemodynamic decompensation on electrical inducibility of ventricular arrhythmias in patients with dilated cardiomyopathy and complex nonsustained ventricular arrhythmias (Kulick et al). 1990;119:878-83

Hemodynamic effects of intravenous procainamide during ventricular tachycardia (Sharma et al). 1990;119:1034-41

Interrelationship of variable coupling, multiformity and repetitive forms: implications for classification of ventricular arrhythmias (Lowery et al). 1990;119:301-7

Participation of a concealed nodoventricular fiber in the genesis of paroxysmal tachycardias (Wu et al). 1990;119:583-91

Prospective evaluation of parenteral magnesium sulfate in the treatment of patients with reentrant AV supraventricular tachycardia (Sager et al). 1990;119:308-16

Selecting therapy for sustained ventricular tachycardias: importance of the sensitivity and specificity of programmed electrical stimulation for predicting arrhythmia recurrences (Stevenson et al). 1990;119:871-7

**Arrhythmia, animal**

Barucainide, a novel class Ib antiarrhythmic agent with a slow kinetic property: electrophysiologic observations in isolated canine and rabbit cardiac muscle (Takanaka and Singh). 1990;119:1050-60

Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias (Bekheit et al). 1990;119:1025-33

Effects of multipolar electrode radiofrequency energy delivery on ventricular endocardium (Oeff et al). 1990;119:599-607

Inducible monomorphic sustained ventricular tachycardia in the conscious pig (Kirby et al). 1990;119:1042-9

Parasympathetically modulated antiarrhythmic action of lidocaine in atrial fibrillation (David et al). 1990;119:1061-8

Reentrant ventricular arrhythmias in the late myocardial infarction period. 17. Correlation of activation patterns of sinus and reentrant ventricular tachycardia (Assadi et al). 1990;119:1014-24

**Arrhythmia, child**

Atenolol in children with ventricular arrhythmias (Trippel and Gillette). 1990;119:1312-6

Control of multiform ventricular tachycardia by propranolol in a child with no identifiable cardiac disease and sudden death (de Paola et al). 1990;119:1429-32 (Brief comm.)

Ventricular couplets in the young: prognosis related to underlying substrate (Paul et al). 1990;119:577-82

**Arrhythmia, sinus**

ECG variants and cardiac arrhythmias in athletes: clinical relevance and prognostic importance (Zehender et al). 1990;119:1378-91 (Curriculum cardi.)

**Arterial occlusive diseases, animal**

Regional myocardial blood flow with a reperfusion catheter and an autoperfusion balloon catheter during total coronary occlusion (Christensen et al). 1990;119:242-8

**Arterio-arterial fistula**

Nuclear magnetic resonance imaging of the pulmonary arteries, subpulmonary region, and aorticopulmonary shunts: a comparative study with two-dimensional echocardiography and angiography (Vick et al). 1990;119:1103-10

**Arteriovenous fistula**

Congenital aneurysm of the right coronary artery with fistulous connection to the right atrium (Ludomirsky et al). 1990;119:672-5 (Brief comm.)



# Arteriovenous malformations

Unusual phrenic arteriovenous malformation mimicking pulmonary sequestration with heart failure: two cases successfully treated by surgery (Wu et al). 1990;119:410-2 (Brief comm.)

# Aspirin

The effects of long-term antithrombotic treatment on left ventricular thrombi in patients after an acute myocardial infarction (Kouvaras et al). 1990;119:73-8

The role of antiplatelet agents in modifying the extent of restenosis following percutaneous transluminal coronary angioplasty (Schwartz et al). 1990;119:232-6

Superiority of warfarin over aspirin long term after thrombolytic therapy for acute myocardial infarction (Schreiber et al). 1990;119:1238-44

# Ataxia

Amiodarone toxicity: myopathy and neuropathy (Roth et al). 1990;119:1223-5 (Brief comm.)

# Atenolol

Atenolol in children with ventricular arrhythmias (Trippel and Gillette). 1990;119:1312-6

# Atherosclerosis

Angina and threatened acute myocardial infarction after cardiac transplantation (Ramsdale and Bellamy). 1990;119:1195-7 (Brief comm.)

Assessment of normal and atherosclerotic arterial wall thickness with an intravascular ultrasound imaging catheter (Mallery et al). 1990;119:1392-1400 (Prog. cardi.)

Coronary angiographic ruptured atherosclerotic plaque as a predictor of future progression of stenosis (Nagatomo et al). 1990;119:1244-53

Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels (de Albuquerque et al). 1990;119:1197-9 (Brief comm.)

Modification of experimental and clinical atherosclerosis by dietary fish oil (Zhu and Parmley). 1990;119:168-78 (Prog. cardi.)

A new method of scoring coronary angiograms to reflect extent of coronary atherosclerosis and improve correlation with major risk factors (Sullivan et al). 1990;119:1262-7

Perioperative and long-term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease (Younis et al). 1990;119:1287-92

# Atherosclerosis, animal

Atherosclerotic Yucatan microswine: an animal model with high-grade, fibrocalcific, nonfatty lesions suitable for testing catheter-based interventions (Gal et al). 1990;119:291-300

# Atherosclerosis, coronary; see Coronary arteriosclerosis

# Atrial fibrillation

Impact of atrial fibrillation on the in-hospital and long-term survival of patients with acute myocardial infarction: a community-wide perspective (Goldberg et al). 1990;119:996-1001

# Atrial fibrillation, animal

Parasympathetically modulated antiarrhythmic action of lidocaine in atrial fibrillation (David et al). 1990;119:1061-8

# Atrial natriuretic peptides; see Natriuretic peptides, atrial

# Atrial perforation; see Heart rupture

# Atrioventricular block; see Heart block

# Atrioventricular nodal reentry tachycardia; see Tachycardia, atrioventricular nodal reentry

# Atrioventricular node

Spontaneous atrioventricular dissociation in atrioventricular nodal reentrant tachycardia (Wang et al). 1990;119:1426-9 (Brief comm.)

# Atrium; see Heart atrium entries

# Auranofin

Measuring costs and financial benefits in randomized controlled trials (Bulpitt and Fletcher). 1990;119:766-71 (Symposium)

# Autoperfusion; see Myocardial reperfusion

# Azides

Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

## B

# Bacterial endocarditis; see Endocarditis, bacterial

# Balloon angioplasty; see Angioplasty, transluminal

# Balloon catheterization; see Balloon dilatation

# Balloon dilatation

Balloon valvuloplasty of a subpulmonic membrane (Vacek and Goertz). 1990;119:1419-21 (Brief comm.)

Combined percutaneous balloon valvuloplasty of mitral and tricuspid valves (Bethencourt et al). 1990;119:416-8 (Brief comm.)

Regional myocardial blood flow with a reperfusion catheter and an autoperfusion balloon catheter during total coronary occlusion (Christensen et al). 1990;119:242-8

Successful percutaneous balloon valvuloplasty of a stenotic tricuspid bioprosthesis (Chow et al). 1990;119:666-8 (Brief comm.)

Successive percutaneous double-balloon mitral, aortic, and tricuspid valvotomy in rheumatic trivalvular stenoses (Konugres et al). 1990;119:663-6 (Brief comm.)

Transarterial mitral valvuloplasty in conditions of acute pulmonary edema (Romero et al). 1990;119:1416-9 (Brief comm.)

# Balloon dilatation, adverse effects

Atrial septal defect resulting from mitral balloon valvuloplasty: relation of defect morphology to transeptal balloon catheter delivery (Fields et al). 1990;119:568-76

Balloon rupture during valvuloplasty (Rao) (Letter); (Dev and Shrivastava) (Reply). 1990;119:1441-2

Moraxella endocarditis following balloon angioplasty of aortic coarctation (Sanyal et al). 1990;119:1421-3 (Brief comm.)

# Balloon valvuloplasty; see Angioplasty, transluminal; Balloon dilatation

# Baroreceptors; see Pressoreceptors

# Barucainide

Barucainide, a novel class Ib antiarrhythmic agent with a slow kinetic property: electrophysiologic observations in isolated canine and rabbit cardiac muscle (Takanaka and Singh). 1990;119:1050-60

# Beta blockers; see Adrenergic beta receptor blockers

# Beta-thromoglobulin

Sustained-release nifedipine (nifedipine-L) suppresses plasma thromboxane B<sub>2</sub> and 6-keto prostaglandin F<sub>1α</sub> in both young male smokers and nonsmokers (Nakashima et al). 1990;119:1267-73

# Bioprosthesis

Successful percutaneous balloon valvuloplasty of a stenotic tricuspid bioprosthesis (Chow et al). 1990;119:666-8 (Brief comm.)

# Biopsy

Intramural coronary angitis of periarthritis nodosa proved by endomyocardial biopsy (Sugihara et al). 1990;119:1414-6 (Brief comm.)

Lipomatous hypertrophy of the interatrial septum: diagnosis by percutaneous transvenous biopsy (Stone et al). 1990;119:406-8 (Brief comm.)

Percutaneous left ventricular endomyocardial biopsy with angiographic guidance in patients with dilated cardiomyopathy (Uchida et al). 1990;119:949-52 (Brief comm.)

# Bleeding time

The bleeding time: its potential utility among patients receiving thrombolytic therapy (Hirsch and Goldhaber). 1990;119:158-67 (Curriculum cardi.)

# Block, heart; see Heart block

# Blood flow velocity

Effect of abruptly increased intrathoracic pressure on coronary blood flow velocity in patients (Kern et al). 1990;119:863-70

Effects of nifedipine on transmitral Doppler blood flow velocity profile in patients with concentric left ventricular hypertrophy (Lee et al). 1990;119:1130-6

# Blood pressure

Effect of 24-hour blood pressure and heart rate variations on left ventricular hypertrophy and dilatation in essential hypertension (Mouloupoulos et al). 1990;119:1147-52

Left ventricular filling at elevated diastolic pressures: relationship between transmitral Doppler flow velocities and atrial contribution (Myreng et al). 1990;119:620-6

Prognostic value of abnormal postexercise systolic blood pressure response: prehospital discharge test after myocardial infarction in Japan (Kato et al). 1990;119:264-71

# Blood pressure, high; see Hypertension entries

# Blood transfusion

Reversal of echocardiographic signs of pericardial tamponade by transfusion (Tunick et al). 1990;119:199-201 (Brief comm.)

# Blunt trauma; see Wounds, nonpenetrating



**Bookshelf**

Bookshelf. 1990;119:212, 424, 710, 1230

**Bradycardia**

Effect of 24-hour blood pressure and heart rate variations on left ventricular hypertrophy and dilatation in essential hypertension (Mouloupoulos et al). 1990;119:1147-52

**Brief communications**

Brief communications. 1990;119:185-211, 390-423, 663-705, 949-82, 1193-229, 1406-40

**Bronchopulmonary sequestration**

Unusual phrenic arteriovenous malformation mimicking pulmonary sequestration with heart failure: two cases successfully treated by surgery (Wu et al). 1990;119:410-2 (Brief comm.)

**BTS 49465; see Flosequinan****Bundle-branch block**

Clinical and electrophysiologic findings in acute ischemic intrahisian bundle-branch block (Cortadellas et al). 1990;119:23-9

**Bundle of His**

Clinical and electrophysiologic findings in acute ischemic intrahisian bundle-branch block (Cortadellas et al). 1990;119:23-9

**C****Calcium channel blockers**

Acute antianginal hemodynamic effects of nicardipine in coronary artery disease (Lambert and Pepine). 1990;119:457-62 (Symposium)

Acute pharmacokinetic and hemodynamic effects of intravenous bolus dosing of nicardipine (Cheung et al). 1990;119:438-42 (Symposium)

Clinical considerations for the use of intravenous nicardipine in the treatment of postoperative hypertension (Kaplan). 1990;119:443-6 (Symposium)

Clinical pharmacology, pharmacokinetics, and hemodynamic effects of nicardipine (Singh and Josephson). 1990;119:427-34 (Symposium)

Effects of nifedipine on transmitral Doppler blood flow velocity profile in patients with concentric left ventricular hypertrophy (Lee et al). 1990;119:1130-6

H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4

Intravenous nicardipine hydrochloride: treatment of patients with severe hypertension (Wallin). 1990;119:434-7 (Symposium)

Nicardipine and propranolol in the treatment of hypertension: similar antihypertensive but dissimilar hemodynamic actions (Ram et al). 1990;119:463-7 (Symposium)

Nicardipine versus placebo for the treatment of postoperative hypertension (Goldberg et al). 1990;119:446-50 (Symposium)

Randomized double-blind comparison of side effects of nicardipine and nifedipine in angina pectoris (DeWood et al). 1990;119:468-78 (Symposium)

Sustained-release nifedipine (nifedipine-L) suppresses plasma thromboxane B<sub>2</sub> and 6-keto prostaglandin F<sub>1α</sub> in both young male smokers and nonsmokers (Nakashima et al). 1990;119:1267-73

Symposium on vasoselective calcium channel blockade: studies with oral and intravenous nicardipine—introduction (Weber). 1990;119:425-6 (Symposium)

Techniques for assessing inotropic effects of drugs in patients with heart failure: application to the evaluation of nicardipine (Fifer et al). 1990;119:451-6 (Symposium)

Use of heart rate spectral analysis to study the effects of calcium channel blockers on sympathetic activity after myocardial infarction (Bekheit et al). 1990;119:79-85

Verapamil but not nifedipine impairs left ventricular function during exercise in hypertensive patients (Ashmore et al). 1990;119:636-41

**Cardiac arrest; see Heart arrest****Cardiac catheterization; see Heart catheterization****Cardiac metabolism, animal; see Heart, metabolism, animal****Cardiac output**

Accuracy of mitral Doppler echocardiographic cardiac output determinations in adults (Miller et al). 1990;119:905-10

**Cardiac pacing, artificial**

Comparison of QRS morphologies of spontaneous premature ventricular complexes and ventricular tachycardia induced by programmed stimulation (Anderson et al). 1990;119:1302-11

**Cardiac pacing, artificial—Cont'd**

Developmental sequelae of fixed-rate ventricular pacing in the immature canine heart: an electrophysiologic, hemodynamic, and histopathologic evaluation (Karpawich et al). 1990;119:1077-83

**Cardiac tamponade**

Cholesterol pericarditis and cardiac tamponade with congenital hypothyroidism in adulthood (Van Buren and Roberts). 1990;119:697-700 (Brief comm.)

Fatal cardiac tamponade in systemic lupus erythematosus—a hazard of anticoagulation (Leung et al). 1990;119:422-3 (Brief comm.)

Frequency and significance of chamber collapses during cardiac tamponade (Reydel and Spodick). 1990;119:1160-3 (Curriculum cardiol.)

Hemodynamic findings in extrapericardial atrial tamponade (Minella et al). 1990;119:1221-2 (Brief comm.)

Reversal of echocardiographic signs of pericardial tamponade by transfusion (Tunick et al). 1990;119:199-201 (Brief comm.)

**Cardiac volume**

Beneficial effect of residual flow to the infarct region on left ventricular volume changes after acute myocardial infarction (Shen et al). 1990;119:525-9

**Cardiogenic shock; see Shock, cardiogenic****Cardiomyopathy, congestive**

Atrial and ventricular arrhythmias in asymptomatic active elderly subjects: correlation with left atrial size and left ventricular mass (Manyari et al). 1990;119:1069-76

Cardiomyopathy and pulmonary emboli in terminal Duchenne's muscular dystrophy (Riggs). 1990;119:690-3 (Brief comm.)

Effect of acute hemodynamic decompensation on electrical inducibility of ventricular arrhythmias in patients with dilated cardiomyopathy and complex nonsustained ventricular arrhythmias (Kulick et al). 1990;119:878-83

Effect of 24-hour blood pressure and heart rate variations on left ventricular hypertrophy and dilatation in essential hypertension (Mouloupoulos et al). 1990;119:1147-52

Improvement in exercise performance and hemodynamics by labetalol in patients with idiopathic dilated cardiomyopathy (Leung et al). 1990;119:884-90

Influence of anti-beta-receptor antibodies on cardiac adenylate cyclase in patients with idiopathic dilated cardiomyopathy (Limas et al). 1990;119:1322-8

Myocardial energetics and efficiency in patients with idiopathic cardiomyopathy: response to dobutamine and amrinone (Sundram et al). 1990;119:891-8

Percutaneous left ventricular endomyocardial biopsy with angiographic guidance in patients with dilated cardiomyopathy (Uchida et al). 1990;119:949-52 (Brief comm.)

Prediction of outcome in late-stage cardiomyopathy (Kelly et al). 1990;119:1111-21

Quantitative analysis of <sup>123</sup>I-meta-iodobenzylguanidine (MIBG) uptake in hypertrophic cardiomyopathy (Nakajima et al). 1990;119:1329-37**Cardiomyopathy, dilated; see Cardiomyopathy, congestive****Cardiomyopathy, hypertrophic**

Acute mitral regurgitation with cardiogenic shock in a patient with hypertrophic cardiomyopathy: a critical management dilemma (Hilton et al). 1990;119:1205-7 (Brief comm.)

Iodine-123 phenylpentadecanoic acid myocardial scintigraphy in patients with left ventricular hypertrophy: alterations in left ventricular distribution and utilization (Wolfe et al). 1990;119:1338-47

**Cardiovascular disease; see also Coronary disease entities****Cardioversion; see Electric countershock****Catalase**

Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

**Catheterization, balloon; see Balloon dilatation****Catheterization, heart; see Heart catheterization****Catheterization, peripheral**

Assessment of normal and atherosclerotic arterial wall thickness with an intravascular ultrasound imaging catheter (Mallery et al). 1990;119:1392-1400 (Prog. cardiol.)

**Catheterization, Swan-Ganz, adverse effects**

Right ventricular infarction as a risk factor for ventricular fibrillation during pulmonary artery catheterization using Swan-Ganz catheters (López-Sendón et al). 1990;119:207-9 (Brief comm.)

### Cerebrovascular disorders, economics

The economics of hypertension and stroke (Smith). 1990;119:725-8 (Symposium)

Medical management and managing medical care: the dilemma of evaluating new technology (Bloom). 1990;119:754-61 (Symposium)

### Cholesterol

Cholesterol pericarditis and cardiac tamponade with congenital hypothyroidism in adulthood (Van Buren and Roberts). 1990;119:697-700 (Brief comm.)

Costs and benefits of risk factor reduction for coronary heart disease: insights from screening and treatment of serum cholesterol (Stason). 1990;119:718-24 (Symposium)

Effects of different exercise training intensities on lipoprotein cholesterol fractions in healthy middle-aged men (Stein et al). 1990;119:277-83

### Cimetidine

H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4

### Cineangiography

Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)

### Cineradiography

Interstudy reproducibility of dimensional and functional measurements between cine magnetic resonance studies in the morphologically abnormal left ventricle (Semelka et al). 1990;119:1367-73

### Circulating immunoreactive endothelin; see Endothelin—um-derived relaxing factor

### Coarctation of aorta; see Aortic coarctation

### Computer-assisted image interpretation; see Image interpretation, computer-assisted

### Computer simulation

Medical management and managing medical care: the dilemma of evaluating new technology (Bloom). 1990;119:754-61 (Symposium)

### Conduction system; see Heart conduction system

### Congenital heart defects; see Heart defects, congenital

### Congestive cardiomyopathy; see Cardiomyopathy, congestive

### Congestive heart failure; see Heart failure, congestive

### Continuous ambulatory peritoneal dialysis; see Peritoneal dialysis, continuous ambulatory

### Contrast media

Effect of intracoronary contrast medium on left ventricular diastolic pressure-volume relationships (Klów et al). 1990;119:59-63

### Contusions

Emergency PTCA for coronary artery occlusion after blunt chest trauma (Sigmund et al). 1990;119:1408-10 (Brief comm.)

### Coronary Artery Surgery Study Registry

Significance of ventricular tachyarrhythmias complicating cardiac catheterization: a CASS Registry study (Epstein et al). 1990;119:494-502

### Coronary aneurysm

Massive aneurysm of the left main coronary artery (Hawkins et al). 1990;119:1406-8 (Brief comm.)

Thrombolytic therapy in coronary ectasia and acute myocardial infarction (Rab et al). 1990;119:955-7 (Brief comm.)

### Coronary angiography; see Angiography

### Coronary arteriosclerosis

Comparative analysis of coronary angiographic morphology following stenosis (Klein et al). 1990;119:35-41

Isolated bilateral coronary ostial stenosis in Takayasu's arteritis (Emi et al). 1990;119:962-4 (Brief comm.)

Modification of experimental and clinical atherosclerosis by dietary fish oil (Zhu and Parmley). 1990;119:168-78 (Prog. cardiol.)

### Coronary artery bypass

Circulatory collapse following coronary bypass surgery: multi-vessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine (Gurley et al). 1990;119:1194-5 (Brief comm.)

Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels (de Albuquerque et al). 1990;119:1197-9 (Brief comm.)

### Coronary artery bypass—Cont'd

Delayed recovery of revascularized myocardium after referral for cardiac transplantation (Luu et al). 1990;119:668-70 (Brief comm.)

Long-term outcome of unsuccessful percutaneous transluminal coronary angioplasty (Tuzcu et al). 1990;119:791-6

Morphologic findings in saphenous veins used as coronary arterial bypass conduits for longer than 1 year: necropsy analysis of 53 patients, 123 saphenous veins, and 1865 five-millimeter segments of veins (Kalan and Roberts). 1990;119:1164-84 (Prog. cardiol.)

### Coronary artery disease; see Coronary disease entries

### Coronary artery vasospasm; see Coronary vasospasm

### Coronary disease, animal

Myocardial protection with autoperfusion during prolonged coronary artery occlusion (Zalewski et al). 1990;119:41-6

Relationship between regional myocardial blood flow and the distribution of <sup>99m</sup>Tc-sestamibi in the presence of total coronary artery occlusion (Mousa et al). 1990;119:842-7

Sustained beneficial effects of gallopamil (D600) on size of myocardial infarction 24 hours after coronary artery occlusion in dogs (Endo et al). 1990;119:1002-7

### Coronary disease, diagnosis

The effect of baseline electrocardiographic abnormalities on the diagnostic accuracy of exercise-induced ST segment changes (Meyers et al). 1990;119:272-6

Repeat coronary angioplasty during the same angiographic diagnosis of coronary stenosis (Alfonso et al). 1990;119:237-41

### Coronary disease, drug therapy

Acute antianginal hemodynamic effects of nicardipine in coronary artery disease (Lambert and Pepine). 1990;119:457-62 (Symposium)

Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54

Negative inotropic effect of intravenous nifedipine in coronary artery disease: relation to plasma levels (Clifton et al). 1990;119:283-90

### Coronary disease, economics

The cost-benefit approach to pricing new medicines: doxazosin versus  $\beta$ -blocker treatment in Sweden (Lindgren). 1990;119:748-53 (Symposium)

Cost-effectiveness perspectives in coronary heart disease (Goldman). 1990;119:733-40 (Symposium)

Costs and benefits of risk factor reduction for coronary heart disease: insights from screening and treatment of serum cholesterol (Stason). 1990;119:718-24 (Symposium)

The design of future cost-benefit studies (Maynard). 1990;119:761-5 (Symposium)

The economics of hypertension and stroke (Smith). 1990;119:725-8 (Symposium)

Measuring costs and financial benefits in randomized controlled trials (Bulpitt and Fletcher). 1990;119:766-70 (Symposium)

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Regulatory demands for cost-benefit studies (Louis). 1990;119:771-5 (Symposium)

Symposium on the costs and benefits of coronary heart disease risk factor reduction: introduction (Mancia). 1990;119:711 (Symposium)

### Coronary disease, epidemiology

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Stratifying the patient at risk from coronary disease: new insights from the Framingham Heart Study (Levy et al). 1990;119:712-7 (Symposium)

Survival determinants in black patients with angiographically defined coronary artery disease (Simmons et al). 1990;119:513-9

### Coronary disease, immunology

Circulating immunoreactive endothelin in ischemic heart disease (Yasuda et al). 1990;119:801-6

### Coronary disease, mortality

Cost-effectiveness perspectives in coronary heart disease (Goldman). 1990;119:733-40 (Symposium)

Geographic variation in sudden coronary death (Gillum). 1990;119:380-9 (Prog. cardiol.)

**Coronary disease, mortality—Cont'd**

Stratifying the patient at risk from coronary disease: new insights from the Framingham Heart Study (Levy et al). 1990;119:712-7 (Symposium)

**Coronary disease, physiopathology**

Coronary angiographic ruptured atheromatous plaque as a predictor of future progression of stenosis (Nagatomo et al). 1990;119:1244-53

Exercise-induced impairment of diastolic time in patients with X syndrome (Spinelli et al). 1990;119:829-33

Iron depletion and coronary disease (Laufer) (Letter); (Sullivan) (Reply). 1990;119:1448-9

Mechanisms of pain perception in patients with silent myocardial ischemia (Sheps et al). 1990;119:983-7 (Editorial)

A new method of scoring coronary angiograms to reflect extent of coronary atherosclerosis and improve correlation with major risk factors (Sullivan et al). 1990;119:1262-7

Pulmonary thallium uptake: correlation with systolic and diastolic left ventricular function at rest and during exercise (Manning). 1990;119:1137-46

Transient pulsus alternans during acute myocardial ischemia and its resolution following  $\beta$ -adrenergic blockade (Giudici and Savage). 1990;119:960-2 (Brief comm.)

**Coronary disease, prevention and control**

Costs and benefits of risk factor reduction for coronary heart disease: insights from screening and treatment of serum cholesterol (Stason). 1990;119:718-24 (Symposium)

Symposium on the costs and benefits of coronary heart disease risk factor reduction: introduction (Mancia). 1990;119:711 (Symposium)

**Coronary disease, therapy**

The effects of atrial pacing on the signal-averaged electrocardiogram in patients with coronary artery disease (Greenspon and Volosin). 1990;119:29-34

Percutaneous transluminal coronary angioplasty in silent ischemia (Tuzcu et al). 1990;119:797-801

PTCA of chronically occluded coronary arteries (Laarman et al). 1990;119:1153-60 (Curriculum cardiol.)

PTCA of the left coronary artery when the right coronary artery is chronically occluded (Teirstein et al). 1990;119:479-83

Restenosis following coronary angioplasty (Fanelli and Aronoff). 1990;119:357-68 (Curriculum cardiol.)

**Coronary ectasia; see Coronary aneurysm****Coronary thrombosis**

Acute coronary thrombosis following head trauma in a young man (Bashour et al). 1990;119:676-7 (Brief comm.)

Echocardiography in diagnostic assessment of peripheral arterial embolization (Bar-El et al). 1990;119:1090-4

Heparin-induced thrombocytopenia and arterial thrombosis: alternative therapies (Cola and Ansell). 1990;119:368-74 (Curriculum cardiol.)

Inferior infarction with large nonapical mobile thrombus mimicking myxoma (Kjøller et al). 1990;119:402-4 (Brief comm.)

Intracardiac thrombi in patients undergoing electroconvulsive therapy (Mensah et al). 1990;119:684-5 (Brief comm.)

PTCA of chronically occluded coronary arteries (Laarman et al). 1990;119:1153-60 (Curriculum cardiol.)

PTCA of the left coronary artery when the right coronary artery is chronically occluded (Teirstein et al). 1990;119:479-83

Urgent surgical removal of a rapidly growing left ventricular thrombus following acute myocardial infarction (Leor et al). 1990;119:1199-201 (Brief comm.)

**Coronary thrombosis, animal**

Regional myocardial blood flow with a reperfusion catheter and an autoperfusion balloon catheter during total coronary occlusion (Christensen et al). 1990;119:242-8

Sustained beneficial effects of gallopamil (D600) on size of myocardial infarction 24 hours after coronary artery occlusion in dogs (Endo et al). 1990;119:1002-7

**Coronary vasospasm**

Circulatory collapse following coronary bypass surgery: multi-vessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine (Gurley et al). 1990;119:1194-5 (Brief comm.)

Exercise-induced silent myocardial ischemia in patients with vasospastic angina (Aoki et al). 1990;119:551-6

Hyperventilation-induced coronary vasospasm refractory to intracoronary nitroglycerin (Ghio et al). 1990;119:957-60 (Brief comm.)

**Coronary vasospasm—Cont'd**

The value of exercise testing in patients with coronary artery spasm (Castello et al). 1990;119:259-63

**Coronary vessel anomalies**

Congenital coronary artery anomalies in Noonan's syndrome (Wong et al). 1990;119:396-400 (Brief comm.)

Coronary artery-to-left ventricle communication with abnormal regional coronary flow demonstrated by ultrafast computed tomography (Marshall et al). 1990;119:677-9 (Brief comm.)

Echocardiographic identification of anomalous origin of the left circumflex coronary artery from the right sinus of Valsalva (Piovesana et al). 1990;119:205-7 (Brief comm.)

**Coronary vessels, animal**

Effect of stenosis on exercise-induced dilation of large coronary arteries (Schwartz et al). 1990;119:520-4

Myocardial protection with autoperfusion during prolonged coronary artery occlusion (Zalewski et al). 1990;119:41-6

**Coronary vessels, drug effects**

Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54

Ethanol-induced coronary vasodilation in patients with and without coronary artery disease (Cigarroa et al). 1990;119:254-9

**Coronary vessels, injuries**

Emergency PTCA for coronary artery occlusion after blunt chest trauma (Sigmund et al). 1990;119:1408-10 (Brief comm.)

**Coronary vessels, physiology**

Physiologic role of coronary PGI<sub>2</sub> and PGE<sub>2</sub> in modulating coronary vascular response to sympathetic stimulation (Neri Serneri et al). 1990;119:848-54

**Coronary vessels, physiopathology**

Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels (de Albuquerque et al). 1990;119:1197-9 (Brief comm.)

Effect of abruptly increased intrathoracic pressure on coronary blood flow velocity in patients (Kern et al). 1990;119:863-70

Stable angina pectoris and controlled ischemia: What causes the abnormalities in whole blood filterability? (Ciuffetti et al). 1990;119:54-8

**Cost benefit analysis**

The cost-benefit approach to pricing new medicines: doxazosin versus  $\beta$ -blocker treatment in Sweden (Lindgren). 1990;119:748-53 (Symposium)

Cost-effectiveness perspectives in coronary heart disease (Goldman). 1990;119:733-40 (Symposium)

Costs and benefits of risk factor reduction for coronary heart disease: insights from screening and treatment of serum cholesterol (Stason). 1990;119:718-24 (Symposium)

The design of future cost-benefit studies (Maynard). 1990;119:761-5 (Symposium)

The economics of hypertension and stroke (Smith). 1990;119:725-8 (Symposium)

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Outcome assessment in cardiovascular cost-benefit studies (O'Brien and Rushby). 1990;119:740-8 (Symposium)

Overview: economic evaluation and coronary heart disease (Mancia). 1990;119:775-6 (Symposium)

Regulatory demands for cost-benefit studies (Louis). 1990;119:771-5 (Symposium)

**Cost effectiveness; see Cost benefit analysis****Cough**

Effect of abruptly increased intrathoracic pressure on coronary blood flow velocity in patients (Kern et al). 1990;119:863-70

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Atypical creatine kinase MB isozyme in an elderly patient without evidence of myocardial infarction or underlying malignancy (Streiff and Mehta). 1990;119:693-4 (Brief comm.)

**Crohn disease**

Aortic regurgitation in Crohn's disease (O'Mahony et al) (Letter); (Leung) (Letter); (Burdick and Tresch) (Reply). 1990;119:1444-6

**Curriculum in cardiology**

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## D

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- Control of multifactorial ventricular tachycardia by propranolol in a child with no identifiable cardiac disease and sudden death (de Paola et al). 1990;119:1429-32 (Brief comm.)
- The effects of exercise during viremia on the signal-averaged electrocardiogram (Vacek and Smith). 1990;119:702-5 (Brief comm.)
- Geographic variation in sudden coronary death (Gillum). 1990;119:380-9 (Prog. cardiol.)
- Limitations of the exercise test as a screen for acute cardiac events in asymptomatic patients (Coplan and Fuster). 1990;119:987-90 (Editorial)

### Death, sudden, child

- Ventricular couplets in the young: prognosis related to underlying substrate (Paul et al). 1990;119:577-82

### Desipramine

- Simulation of acute myocardial infarction by desipramine hydrochloride (Borganelli and Forman). 1990;119:1413-4 (Brief comm.)

### Differential diagnosis

- Atypical creatine kinase MB isozyme in an elderly patient without evidence of myocardial infarction or underlying malignancy (Streiff and Mehta). 1990;119:693-4 (Brief comm.)
- Isolated bilateral coronary ostial stenosis in Takayasu's arteritis (Emi et al). 1990;119:962-4 (Brief comm.)
- Simulation of acute myocardial infarction by desipramine hydrochloride (Borganelli and Forman). 1990;119:1413-4 (Brief comm.)

### Dialysis; see also Peritoneal dialysis, continuous ambulatory

- Short- and long-term outcome of percutaneous transluminal coronary angioplasty in chronic dialysis patients (Kahn et al). 1990;119:484-9

### Diastole

- Exercise-induced impairment of diastolic time in patients with X syndrome (Spinelli et al). 1990;119:829-33
- In vivo infusion of oxygen free radical substrates causes myocardial systolic, but not diastolic dysfunction (Przyklenk et al). 1990;119:807-15

### Diatrizoate meglumine

- Effect of intracoronary contrast medium on left ventricular diastolic pressure-volume relationships (Klów et al). 1990;119:59-63

### Diazoxide

- Long-term oral diazoxide therapy for pulmonary vascular obstructive disease associated with congenital heart defects (Rao). 1990;119:1317-21

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### Diltiazem

- Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54
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### Dipyridamole

- Is dipyridamole-thallium imaging preferable to submaximal exercise thallium testing for risk stratification after thrombolysis? (Lette et al). 1990;119:671-2 (Brief comm.)
- Perioperative and long-term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease (Younis et al). 1990;119:1287-92
- The role of antiplatelet agents in modifying the extent of restenosis following percutaneous transluminal coronary angioplasty (Schwartz et al). 1990;119:232-6

### Disease models, animal

- Atherosclerotic Yucatan microswine: an animal model with high-grade, fibrocalcific, nonfatty lesions suitable for testing catheter-based interventions (Gal et al). 1990;119:291-300

### Diuretics, thiazide

- Treating hypertension and cardiovascular risk: Are there trade-offs? (Grimm). 1990;119:729-32 (Symposium)

### Dobutamine

- Myocardial energetics and efficiency in patients with idiopathic cardiomyopathy: response to dobutamine and amrinone (Sundram et al). 1990;119:891-8

### Docosahexaenoic acids

- Modification of experimental and clinical atherosclerosis by dietary fish oil (Zhu and Parmley). 1990;119:168-78 (Prog. cardiol.)

### Doppler echocardiography; see Echocardiography, Doppler

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### Double-blind method

- Randomized double-blind comparison of side effects of nifedipine and nifedipine in angina pectoris (DeWood et al). 1990;119:468-78 (Symposium)

### Drug interactions

- H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4

### Drug synergism

- Synergism between superoxide dismutase and sodium nitrite in cardioprotection following ischemia and reperfusion (Johnson et al). 1990;119:530-7

### Drugs, economics

- The cost-benefit approach to pricing new medicines: doxazosin versus  $\beta$ -blocker treatment in Sweden (Lindgren). 1990;119:748-53 (Symposium)

### Dual electrode systems; see Electrodes, implanted

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- Beneficial effect of residual flow to the infarct region on left ventricular volume changes after acute myocardial infarction (Shen et al). 1990;119:525-9
- Diagnostic implications of the echocardiographically demonstrated pericardial peel (Blickman et al). 1990;119:965-8 (Brief comm.)
- Echocardiographic identification of anomalous origin of the left circumflex coronary artery from the right sinus of Valsalva (Piovesana et al). 1990;119:205-7 (Brief comm.)
- The echocardiographic recognition of an atrial myxoma vegetation (Tunick et al). 1990;119:679-80 (Brief comm.)
- Echocardiographic recognition of tubercular submural left ventricular aneurysm extending into left atrium (Daxini et al). 1990;119:970-2 (Brief comm.)
- Echocardiography in diagnostic assessment of peripheral arterial embolization (Bar-El et al). 1990;119:1090-4
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- Nuclear magnetic resonance imaging of the pulmonary arteries, subpulmonary region, and aorticopulmonary shunts: a comparative study with two-dimensional echocardiography and angiography (Vick et al). 1990;119:1103-10
- Right heart metastatic endocardial implants: echocardiographic and pathologic correlation (Rey et al). 1990;119:1217-20 (Brief comm.)
- Role of echocardiography in the diagnosis of cardiac lymphoma (Van Veldhuisen et al). 1990;119:973-7 (Brief comm.)
- Significance of laminar systolic regurgitant flow in patients with tricuspid regurgitation: a combined pulsed-wave, continuous-wave Doppler and two-dimensional echocardiographic study (Minagoe et al). 1990;119:627-35
- Unusual presentation and echocardiographic features of surgically proven nonbacterial thrombotic endocarditis (Habbab et al). 1990;119:404-6 (Brief comm.)

### Echocardiography, Doppler

- Accuracy of mitral Doppler echocardiographic cardiac output determinations in adults (Miller et al). 1990;119:905-10

- Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)

**Echocardiography, Doppler—Cont'd**

- Comparison of hemodynamic pressure half-time method and Gorlin formula with Doppler and echocardiographic determinations of mitral valve area in patients with combined mitral stenosis and regurgitation (Fredman et al). 1990;119:121-9
- Effects of nifedipine on transmitral Doppler blood flow velocity profile in patients with concentric left ventricular hypertrophy (Lee et al). 1990;119:1130-6
- Functional pulmonary atresia: color flow recognition and treatment with extracorporeal membrane oxygenation (Weinhaus et al). 1990;119:980-2 (Brief comm.)
- Left ventricular filling shortly after an uncomplicated myocardial infarction as a predictor of subsequent exercise capacity (Finkelhor et al). 1990;119:85-91
- Noninvasive evaluation of pulmonary artery systolic pressures during dynamic exercise by saline-enhanced Doppler echocardiography (Himelman et al). 1990;119:685-8 (Brief comm.)
- Perioperative surface and transesophageal color-flow Doppler evaluation of post-traumatic intracardiac shunt (Lindenbaum et al). 1990;119:193-6 (Brief comm.)
- Progression of aortic stenosis in adults: new appraisal using Doppler echocardiography (Roger et al). 1990;119:331-8
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- Anterolateral myocardial rupture following mitral valve replacement: transesophageal echo documentation of ischemic etiology (Blondheim et al). 1990;119:681-3 (Brief comm.)
- Aortic thrombosis and peripheral embolization after thoracic gunshot wound diagnosed by transesophageal echocardiography (Bergin). 1990;119:688-90 (Brief comm.)
- Diagnosis and documentation of healing in descending thoracic aortic dissection by transesophageal echocardiography and Doppler color flow imaging (Hixson et al). 1990;119:1432-5 (Brief comm.)
- Diagnosis of infective endocarditis on a Starr-Edwards prosthesis by transesophageal echocardiography (Culver et al). 1990;119:972-3 (Brief comm.)
- Safety and utility of transesophageal echocardiography in the critically ill patient (Pearson et al). 1990;119:1083-9
- Transesophageal echocardiographic recognition of mitral valve abnormalities associated with aortic valve endocarditis (Karalis et al). 1990;119:1209-11 (Brief comm.)
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- Modification of experimental and clinical atherosclerosis by dietary fish oil (Zhu and Parmley). 1990;119:168-78 (Prog. cardi.)

**Ejection fraction, ventricular; see Stroke volume****Electric countershock**

- Clinical efficacy of dual electrode systems for endocardial cardioversion of ventricular tachycardia: a prospective randomized crossover trial (Saksena and An). 1990;119:15-22

**Electric stimulation**

- Selecting therapy for sustained ventricular tachycardias: importance of the sensitivity and specificity of programmed electrical stimulation for predicting arrhythmia recurrences (Stevenson et al). 1990;119:871-7

**Electrocardiography**

- Comparative accuracy of the vectorcardiogram and electrocardiogram in the localization of the accessory pathway in patients with Wolff-Parkinson-White syndrome: validation of a new vectorcardiographic algorithm by intraoperative epicardial mapping and electrophysiologic studies (Giorgi et al). 1990;119:592-8
- Comparison of QRS morphologies of spontaneous premature ventricular complexes and ventricular tachycardia induced by programmed stimulation (Anderson et al). 1990;119:1302-11
- ECG variants and cardiac arrhythmias in athletes: clinical relevance and prognostic importance (Zehender et al). 1990;119:1378-91 (Curriculum cardi.)
- The effect of baseline electrocardiographic abnormalities on the diagnostic accuracy of exercise-induced ST segment changes (Meyers et al). 1990;119:272-6
- Effect of baseline ST segment elevation on test performance of standard and heart rate-adjusted ST segment depression criteria (Okin et al). 1990;119:1280-6
- The effects of atrial pacing on the signal-averaged electrocardiogram in patients with coronary artery disease (Greenspon and Volosin). 1990;119:29-34
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- The electrocardiographic diagnosis of acute myocardial infarction in the thrombolytic era (Schweitzer). 1990;119:642-54 (Curriculum cardi.)
- Exercise-induced T wave normalization is not specific for myocardial ischemia detected by perfusion scintigraphy (Frais and Hoeschen). 1990;119:1225-9 (Brief comm.)
- Interrelationship of variable coupling, multiformity and repetitive forms: implications for classification of ventricular arrhythmias (Lowery et al). 1990;119:301-7
- The scalar electrocardiogram of the orthotopic heart transplant recipient (Sandhu et al). 1990;119:917-23
- ST deviation in right chest leads V<sub>3</sub>R to V<sub>7</sub>R during percutaneous transluminal coronary angioplasty (Andersen et al). 1990;119:490-3
- Stepwise approach to the unknown pacemaker ECG (Garson). 1990;119:924-41 (Curriculum cardi.)
- Ventricular couplets in the young: prognosis related to underlying substrate (Paul et al). 1990;119:577-82
- Walk-through angina treated by percutaneous transluminal coronary angioplasty: electrocardiographic, radionuclide, and angiographic correlations (Ratner and Schwartz). 1990;119:390-2 (Brief comm.)

**Electrocoagulation**

- Effects of multipolar electrode radiofrequency energy delivery on ventricular endocardium (Oeff et al). 1990;119:599-607
- Successful transcatheter ablation of an accessory connection in a child following failed surgery: An ideal case? (Oslizlok et al). 1990;119:1424-6 (Brief comm.)

**Electroconvulsive therapy**

- Intracardiac thrombi in patients undergoing electroconvulsive therapy (Mensah et al). 1990;119:684-5 (Brief comm.)

**Electrodes, implanted**

- Clinical efficacy of dual electrode systems for endocardial cardioversion of ventricular tachycardia: a prospective randomized crossover trial (Saksena and An). 1990;119:15-22
- Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator (Mügge et al). 1990;119:1437-9 (Brief comm.)
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- Atrial perforation by a screw-in electrode via a left superior vena cava (Van Nooten et al). 1990;119:1439-40 (Brief comm.)

**Electrophysiology**

- Barucainide, a novel class Ib antiarrhythmic agent with a slow kinetic property: electrophysiologic observations in isolated canine and rabbit cardiac muscle (Takanaka and Singh). 1990;119:1050-60
- Clinical and electrophysiologic findings in acute ischemic intrahisian bundle-branch block (Cortadellas et al). 1990;119:23-9



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- Comparative accuracy of the vectorcardiogram and electrocardiogram in the localization of the accessory pathway in patients with Wolff-Parkinson-White syndrome: validation of a new vectorcardiographic algorithm by intraoperative epicardial mapping and electrophysiologic studies (Giorgi et al). 1990;119:592-8
- Developmental sequelae of fixed-rate ventricular pacing in the immature canine heart: an electrophysiologic, hemodynamic, and histopathologic evaluation (Karpawich et al). 1990;119:1077-83
- Parasympathetically modulated antiarrhythmic action of lidocaine in atrial fibrillation (David et al). 1990;119:1061-8

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- Aortic thrombosis and peripheral embolization after thoracic gunshot wound diagnosed by transesophageal echocardiography (Bergin). 1990;119:688-90 (Brief comm.)
- Echocardiography in diagnostic assessment of peripheral arterial embolization (Bar-El et al). 1990;119:1090-4
- Urgent surgical removal of a rapidly growing left ventricular thrombus following acute myocardial infarction (Leor et al). 1990;119:1199-201 (Brief comm.)

### Embolism, air

- The spectrum of symptomatic coronary air embolism during balloon angioplasty: causes, consequences and management (Kahn and Hartzler). 1990;119:1374-7 (Curriculum cardiol.)

### Endocarditis

- Transesophageal echocardiographic recognition of mitral valve abnormalities associated with aortic valve endocarditis (Karalis et al). 1990;119:1209-11 (Brief comm.)
- Unusual presentation and echocardiographic features of surgically proven nonbacterial thrombotic endocarditis (Habbab et al). 1990;119:404-6 (Brief comm.)

### Endocarditis, bacterial

- Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)
- Diagnosis of infective endocarditis on a Starr-Edwards prosthesis by transesophageal echocardiography (Culver et al). 1990;119:972-3 (Brief comm.)
- Moraxella* endocarditis following balloon angioplasty of aortic coarctation (Sanyal et al). 1990;119:1421-3 (Brief comm.)
- Vegetations on endocardial surfaces struck by regurgitant jets: diagnosis by transesophageal echocardiography (Schwinger et al). 1990;119:1212-5 (Brief comm.)

### Endocardium, animal

- Effects of multipolar electrode radiofrequency energy delivery on ventricular endocardium (Oeff et al). 1990;119:599-607

### Endocardium, physiopathology

- Right heart metastatic endocardial implants: echocardiographic and pathologic correlation (Rey et al). 1990;119:1217-20 (Brief comm.)

### Endomyocardial biopsy; see Biopsy

### Endorphins

- Mechanisms of pain perception in patients with silent myocardial ischemia (Sheps et al). 1990;119:983-7 (Editorial)

### Endothelin; see Endothelium-derived relaxing factor

### Endothelium-derived relaxing factor

- Circulating immunoreactive endothelin in ischemic heart disease (Yasuda et al). 1990;119:801-6

### Enoximone

- Enoximone (Treese and Pop). 1990;119:1450 (Letter)

### Enzyme tests

- Evaluation of the effect of thrombolytic treatment on infarct size and left ventricular function by enzymatic, scintigraphic, and angiographic methods (Mortelmans et al). 1990;119:1231-7

### Erythrocytes

- Stable angina pectoris and controlled ischemia: What causes the abnormalities in whole blood filterability? (Ciuffetti et al). 1990;119:54-8

### Ethanol; see Alcohol, ethyl

### Exercise

- Effect of stenosis on exercise-induced dilation of large coronary arteries (Schwartz et al). 1990;119:520-4

### Exercise—Cont'd

- Effects of different exercise training intensities on lipoprotein cholesterol fractions in healthy middle-aged men (Stein et al). 1990;119:277-83
- The effects of exercise during viremia on the signal-averaged electrocardiogram (Vacek and Smith). 1990;119:702-5 (Brief comm.)
- Exercise-induced impairment of diastolic time in patients with X syndrome (Spinelli et al). 1990;119:829-33
- Exercise-induced silent myocardial ischemia: evaluation by thallium-201 emission computed tomography (Kurata et al). 1990;119:557-67
- Exercise-induced silent myocardial ischemia in patients with vasospastic angina (Aoki et al). 1990;119:551-6
- Exercise-induced T wave normalization is not specific for myocardial ischemia detected by perfusion scintigraphy (Fraiss and Hoeschen). 1990;119:1225-9 (Brief comm.)
- Improvement in exercise performance and hemodynamics by labetalol in patients with idiopathic dilated cardiomyopathy (Leung et al). 1990;119:884-90
- Iron depletion and coronary disease (Lauffer) (Letter); (Sullivan) (Reply). 1990;119:1448-9
- Left ventricular filling shortly after an uncomplicated myocardial infarction as a predictor of subsequent exercise capacity (Finkelhor et al). 1990;119:85-91
- Prognostic significance of daily physical activity after first acute myocardial infarction (Kitajima et al). 1990;119:1193-4 (Brief comm.)
- Pulmonary thallium uptake: correlation with systolic and diastolic left ventricular function at rest and during exercise (Mannting). 1990;119:1137-46
- Verapamil but not nifedipine impairs left ventricular function during exercise in hypertensive patients (Ashmore et al). 1990;119:636-41

### Exercise test

- The effect of baseline electrocardiographic abnormalities on the diagnostic accuracy of exercise-induced ST segment changes (Meyers et al). 1990;119:272-6
- Effect of stenosis on exercise-induced dilation of large coronary arteries (Schwartz et al). 1990;119:520-4
- Exercise-induced silent myocardial ischemia: evaluation by thallium-201 emission computed tomography (Kurata et al). 1990;119:557-67
- Is dipyridamole-thallium imaging preferable to submaximal exercise thallium testing for risk stratification after thrombolysis? (Lette et al). 1990;119:671-2 (Brief comm.)
- Left ventricular filling shortly after an uncomplicated myocardial infarction as a predictor of subsequent exercise capacity (Finkelhor et al). 1990;119:85-91
- Limitations of the exercise test as a screen for acute cardiac events in asymptomatic patients (Coplan and Fuster). 1990;119:987-90 (Editorial)
- Noninvasive evaluation of pulmonary artery systolic pressures during dynamic exercise by saline-enhanced Doppler echocardiography (Himelman et al). 1990;119:685-8 (Brief comm.)
- Prognostic value of abnormal postexercise systolic blood pressure response: prehospital discharge test after myocardial infarction in Japan (Kato et al). 1990;119:264-71
- The value of exercise testing in patients with coronary artery spasm (Castello et al). 1990;119:259-63

### Extracorporeal membrane oxygenation

- Functional pulmonary atresia: color flow recognition and treatment with extracorporeal membrane oxygenation (Weinhaus et al). 1990;119:980-2 (Brief comm.)

### Extrasystole

- Comparison of QRS morphologies of spontaneous premature ventricular complexes and ventricular tachycardia induced by programmed stimulation (Anderson et al). 1990;119:1302-11

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### False positive reactions

- Appraisal of false positive results in nuclear cardiac imaging (Iskandrian and Heo). 1990;119:708-9 (Editorial)

### Femoral artery, animal

- Combined mechanical and chemical thrombolysis in an experimental animal model: evaluation by angiography and angiography (Ritchie et al). 1990;119:64-72

**Fetal diagnosis; see Prenatal diagnosis****Financial analysis; see Cost benefit analysis****Fish oils**

Modification of experimental and clinical atherosclerosis by dietary fish oil (Zhu and Parmley). 1990;119:168-78 (Prog. cardiol.)

**Fistula**

Coronary artery-to-left ventricle communication with abnormal regional coronary flow demonstrated by ultrafast computed tomography (Marshall et al). 1990;119:677-9 (Brief comm.)

Perioperative surface and transesophageal color-flow Doppler evaluation of post-traumatic intracardiac shunt (Lindenbaum et al). 1990;119:193-6 (Brief comm.)

**Flecainide**

Coadministration of flecainide acetate and sotalol during pregnancy: lack of teratogenic effects, passage across the placenta, and excretion in human breast milk (Wagner et al). 1990;119:700-2 (Brief comm.)

Profound exacerbation of neuromuscular weakness by flecainide (Ferrick and Power). 1990;119:414-5 (Brief comm.)

**Flosequinan**

Effect of flosequinan (BTS 49465) on myocardial oxygen consumption (Greenberg et al). 1990;119:1355-66

**Flowmeters**

Assessment of supra-valvular abnormal signal with color Doppler flow mapping in patients with aortic regurgitation (Okamoto et al). 1990;119:339-43

Diagnosis and documentation of healing in descending thoracic aortic dissection by transesophageal echocardiography and Doppler color flow imaging (Hixson et al). 1990;119:1432-5 (Brief comm.)

Effects of nifedipine on transmitral Doppler blood flow velocity profile in patients with concentric left ventricular hypertrophy (Lee et al). 1990;119:1130-6

Left ventricular filling at elevated diastolic pressures: relationship between transmitral Doppler flow velocities and atrial contribution (Myreng et al). 1990;119:620-6

Relation of echocardiographic morphology of the mitral apparatus to mitral regurgitation in mitral valve prolapse: assessment by Doppler color flow imaging (Grayburn et al). 1990;119:1095-102

**Framingham Heart Study**

Stratifying the patient at risk from coronary disease: new insights from the Framingham Heart Study (Levy et al). 1990;119:712-7 (Symposium)

**Free radicals**

Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

In vivo infusion of oxygen free radical substrates causes myocardial systolic, but not diastolic dysfunction (Przyklenk et al). 1990;119:807-15

**G****Gallopamil**

Sustained beneficial effects of gallopamil (D600) on size of myocardial infarction 24 hours after coronary artery occlusion in dogs (Endo et al). 1990;119:1002-7

**Gemfibrozil**

Reduction in Q wave myocardial infarctions with gemfibrozil in the Helsinki Heart Study (Mänttari et al). 1990;119:991-5

**Glyburide**

Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias (Bekheit et al). 1990;119:1025-33

**Glycerol trinitrate**

Hyperventilation-induced coronary vasospasm refractory to intracoronary nitroglycerin (Ghio et al). 1990;119:957-60 (Brief comm.)

Intravenous nitroglycerin-induced heparin resistance: a qualitative antithrombin III abnormality (Becker et al). 1990;119:1254-61

**Graft occlusion, vascular**

Spontaneous thrombolysis in a suboccluded saphenous vein graft (Dangoisse and Colizza). 1990;119:394-6 (Brief comm.)

**H****H<sub>2</sub> antagonists; see Histamine H<sub>2</sub> receptor blockers****Head injuries**

Acute coronary thrombosis following head trauma in a young man (Bashour et al). 1990;119:676-7 (Brief comm.)

**Heart, metabolism, animal**

The effects of propranolol on regional cardiac metabolism during ischemia and reperfusion assessed by magnetic resonance spectroscopy (Kavanaugh et al). 1990;119:1274-9

**Heart, physiology, animal**

Arterial baroreceptor control of peripheral vascular resistance in experimental heart failure (Wilson et al). 1990;119:1122-30

Developmental sequelae of fixed-rate ventricular pacing in the immature canine heart: an electrophysiologic, hemodynamic, and histopathologic evaluation (Karpawich et al). 1990;119:1077-83

**Heart, transplantation**

Delayed recovery of revascularized myocardium after referral for cardiac transplantation (Luu et al). 1990;119:668-70 (Brief comm.)

**Heart aneurysm**

Echocardiographic recognition of tubercular submitral left ventricular aneurysm extending into left atrium (Daxini et al). 1990;119:970-2 (Brief comm.)

**Heart arrest**

The effects of exercise during viremia on the signal-averaged electrocardiogram (Vacek and Smith). 1990;119:702-5 (Brief comm.)

Geographic variation in sudden coronary death (Gillum). 1990;119:380-9 (Prog. cardiol.)

**Heart arrest, child**

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**Heart atrium, abnormalities**

Atrial alternans (Bricker and Murphy). 1990;119:412-4 (Brief comm.)

Congenital aneurysm of the right coronary artery with fistulous connection to the right atrium (Ludomirsky et al). 1990;119:672-5 (Brief comm.)

**Heart atrium, injuries**

Perioperative surface and transesophageal color-flow Doppler evaluation of post-traumatic intracardiac shunt (Lindenbaum et al). 1990;119:193-6 (Brief comm.)

**Heart atrium, pathology**

The echocardiographic recognition of an atrial myxoma vegetation (Tunick et al). 1990;119:679-80 (Brief comm.)

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**Heart atrium, physiology**

Left ventricular filling at elevated diastolic pressures: relationship between transmitral Doppler flow velocities and atrial contribution (Myreng et al). 1990;119:620-6

On the physiologic role of beta-2 adrenoceptors in the human heart: in vitro and in vivo studies (Motomura et al). 1990;119:608-19

**Heart atrium, physiopathology**

Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator (Mügge et al). 1990;119:1437-9 (Brief comm.)

**Heart block**

Clinical and electrophysiologic findings in acute ischemic intraventricular bundle-branch block (Cortadellas et al). 1990;119:23-9

Complete heart block due to interleukin-2 therapy (Vaitkus et al). 1990;119:978-80 (Brief comm.)

Double Wenckebach phenomenon (Kinoshita and Konishi) (Letter); (Oreto et al) (Reply). 1990;119:1450-2

ECG variants and cardiac arrhythmias in athletes: clinical relevance and prognostic importance (Zehender et al). 1990;119:1378-91 (Curriculum cardiol.)

Factors associated with late onset of advanced atrioventricular block in acute Q wave inferior infarction (Sugiura et al). 1990;119:1008-13

Prognostic significance of complete atrioventricular block in patients with acute inferior myocardial infarction with and without right ventricular involvement (Mavric et al). 1990;119:823-8

### Heart block—Cont'd

The scalar electrocardiogram of the orthotopic heart transplant recipient (Sandhu et al). 1990;119:917-23

### Heart catheterization

Assessment of normal and atherosclerotic arterial wall thickness with an intravascular ultrasound imaging catheter (Mallery et al). 1990;119:1392-1400 (Prog. cardiol.)

Atherosclerotic Yucatan microswine: an animal model with high-grade, fibrocalcific, nonfatty lesions suitable for testing catheter-based interventions (Gal et al). 1990;119:291-300

Circulatory collapse following coronary bypass surgery: multi-vessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine (Gurley et al). 1990;119:1194-5 (Brief comm.)

Coronary angioplasty at the time of initial catheterization using small diagnostic catheters (Panayiotou et al). 1990;119:204-5 (Brief comm.)

Regional myocardial blood flow with a reperfusion catheter and an autoperfusion balloon catheter during total coronary occlusion (Christensen et al). 1990;119:242-8

Retrograde left atrial catheterization with a new steerable cardiac catheter (Stefanadis et al). 1990;119:375-80 (Prog. cardiol.)

Serial evaluation of ventricular function after percutaneous aortic balloon valvuloplasty (Harpole et al). 1990;119:130-5

Significance of ventricular tachyarrhythmias complicating cardiac catheterization: a CASS Registry study (Epstein et al). 1990;119:494-502

Survival determinants in black patients with angiographically defined coronary artery disease (Simmons et al). 1990;119:513-9

### Heart catheterization, adverse effects

Right ventricular infarction as a risk factor for ventricular fibrillation during pulmonary artery catheterization using Swan-Ganz catheters (López-Sendón et al). 1990;119:207-9 (Brief comm.)

### Heart conduction system

Intrinsic heart rate in children and young adults: an index of sinus node function isolated from autonomic control (Marcus et al). 1990;119:911-6

Participation of a concealed nodoventricular fiber in the genesis of paroxysmal tachycardias (Wu et al). 1990;119:583-91

### Heart defects, congenital

Absent aortic valve in hypoplastic left heart syndrome (Parikh et al). 1990;119:977-8 (Brief comm.)

Atrial alternans (Bricker and Murphy). 1990;119:412-4 (Brief comm.)

Atrial perforation by a screw-in electrode via a left superior vena cava (Van Nooten et al). 1990;119:1439-40 (Brief comm.)

Congenital aneurysm of the right coronary artery with fistulous connection to the right atrium (Ludomirsky et al). 1990;119:672-5 (Brief comm.)

Congenital coronary artery anomalies in Noonan's syndrome (Wong et al). 1990;119:396-400 (Brief comm.)

Isolated congenital left ventricular diverticulum—echocardiographic features in a fetus (Kitchiner et al). 1990;119:1435-7 (Brief comm.)

Long-term oral diazoxide therapy for pulmonary vascular obstructive disease associated with congenital heart defects (Rao). 1990;119:1317-21

Nuclear magnetic resonance imaging of the pulmonary arteries, subpulmonary region, and aorticopulmonary shunts: a comparative study with two-dimensional echocardiography and angiography (Vick et al). 1990;119:1103-10

Spontaneous long-term survival in single ventricle with pulmonary hypertension (Oliver et al). 1990;119:201-2 (Brief comm.)

Successful transcatheter ablation of an accessory connection in a child following failed surgery: An ideal case? (Oslizlok et al). 1990;119:1424-6 (Brief comm.)

### Heart enlargement

Atrial and ventricular arrhythmias in asymptomatic active elderly subjects: correlation with left atrial size and left ventricular mass (Manyari et al). 1990;119:1069-76

### Heart failure, congestive

Baseline and post-atrial pacing release of atrial natriuretic factor in mitral stenosis (Malatino et al). 1990;119:97-101

### Heart failure, congestive—Cont'd

Efficacy and safety of moricizine in patients with congestive heart failure: a summary of the experience in the United States (Pratt et al). 1990;119:1-7

Evidence against spare or uncoupled  $\beta$ -adrenoceptors in the human heart (Schwinger et al). 1990;119:899-904

Hemodynamic effects of alinidine (ST 567) at rest and during exercise in patients with chronic congestive heart failure (Koenig et al). 1990;119:1348-54

Malignant lymphoma compressing the heart and causing acute left-sided heart failure (Iwase et al). 1990;119:968-70 (Brief comm.)

Prediction of outcome in late-stage cardiomyopathy (Kelly et al). 1990;119:1111-21

Techniques for assessing inotropic effects of drugs in patients with heart failure: application to the evaluation of nicardipine (Fifer et al). 1990;119:451-6 (Symposium)

### Heart failure, congestive, animal

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### Heart ischemia; see Myocardium, blood supply

### Heart neoplasms

Cardiac lipoma in the interventricular septum: evaluation by computed tomography and magnetic resonance imaging (Kamaya et al). 1990;119:1215-7 (Brief comm.)

The echocardiographic recognition of an atrial myxoma vegetation (Tunick et al). 1990;119:679-80 (Brief comm.)

Malignant lymphoma compressing the heart and causing acute left-sided heart failure (Iwase et al). 1990;119:968-70 (Brief comm.)

Role of echocardiography in the diagnosis of cardiac lymphoma (Van Veldhuisen et al). 1990;119:973-7 (Brief comm.)

### Heart rate

Effect of 24-hour blood pressure and heart rate variations on left ventricular hypertrophy and dilatation in essential hypertension (Moulopoulos et al). 1990;119:1147-52

Intrinsic heart rate in children and young adults: an index of sinus node function isolated from autonomic control (Marcus et al). 1990;119:911-6

Transient pulsus alternans during acute myocardial ischemia and its resolution following  $\beta$ -adrenergic blockade (Giudici and Savage). 1990;119:960-2 (Brief comm.)

Use of heart rate spectral analysis to study the effects of calcium channel blockers on sympathetic activity after myocardial infarction (Bekheit et al). 1990;119:79-85

### Heart rate, child

Intrinsic heart rate in children and young adults: an index of sinus node function isolated from autonomic control (Marcus et al). 1990;119:911-6

### Heart rupture

Anterolateral myocardial rupture following mitral valve replacement: transesophageal echo documentation of ischemic etiology (Blondheim et al). 1990;119:681-3 (Brief comm.)

Atrial perforation by a screw-in electrode via a left superior vena cava (Van Nooten et al). 1990;119:1439-40 (Brief comm.)

Delayed rupture of tricuspid papillary muscle following blunt chest trauma (Hilton et al). 1990;119:1410-2 (Brief comm.)

Right ventricular pseudoaneurysm following repair of tetralogy of Fallot (Wheller et al). 1990;119:1207-9 (Brief comm.)

### Heart septal defects, atrial

Atrial septal defect resulting from mitral balloon valvuloplasty: relation of defect morphology to transseptal balloon catheter delivery (Fields et al). 1990;119:568-76

Iatrogenic Lutembacher's syndrome after percutaneous transluminal mitral valvotomy (Chen et al). 1990;119:209-11 (Brief comm.)

Lipomatous hypertrophy of the interatrial septum: diagnosis by percutaneous transvenous biopsy (Stone et al). 1990;119:406-8 (Brief comm.)

### Heart septum

The anatomy of the interatrial septum: a transesophageal echocardiographic study (Schwinger et al). 1990;119:1401-5 (Prog. cardiol.)

Cardiac lipoma in the interventricular septum: evaluation by computed tomography and magnetic resonance imaging (Kamaya et al). 1990;119:1215-7 (Brief comm.)



**Heart surgery, adverse effects**

Noncardiac complications of open-heart surgery (Alfieri and Kotler). 1990;119:149-58 (Curriculum cardiol.)

**Heart transplantation**

The scalar electrocardiogram of the orthotopic heart transplant recipient (Sandhu et al). 1990;119:917-23

**Heart valve prosthesis**

Anterolateral myocardial rupture following mitral valve replacement: transesophageal echo documentation of ischemic etiology (Blondheim et al). 1990;119:681-3 (Brief comm.)

Asynchronous leaflet closure in the normally functioning bileaflet mechanical valve (Donnerstein and Allen). 1990;119:694-7 (Brief comm.)

Diagnosis of infective endocarditis on a Starr-Edwards prosthesis by transesophageal echocardiography (Culver et al). 1990;119:972-3 (Brief comm.)

Successful percutaneous balloon valvuloplasty of a stenotic tricuspid bioprosthesis (Chow et al). 1990;119:666-8 (Brief comm.)

**Heart vegetations; see Endocarditis, bacterial; Heart neoplasms****Heart ventricle, abnormalities**

Coronary artery-to-left ventricle communication with abnormal regional coronary flow demonstrated by ultrafast computed tomography (Marshall et al). 1990;119:677-9 (Brief comm.)

Isolated congenital left ventricular diverticulum—echocardiographic features in a fetus (Kitchiner et al). 1990;119:1435-7 (Brief comm.)

Spontaneous long-term survival in single ventricle with pulmonary hypertension (Oliver et al). 1990;119:201-2 (Brief comm.)

**Heart ventricle, animal**

Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias (Bekheit et al). 1990;119:1025-33

Inducible monomorphic sustained ventricular tachycardia in the conscious pig (Kirby et al). 1990;119:1042-9

Reentrant ventricular arrhythmias in the late myocardial infarction period. 17. Correlation of activation patterns of sinus and reentrant ventricular tachycardia (Assadi et al). 1990;119:1014-24

**Heart ventricle, drug effects**

Hemodynamic effects of intravenous procainamide during ventricular tachycardia (Sharma et al). 1990;119:1034-41

**Heart ventricle, immunology**

Appearance of atrial natriuretic peptide in the ventricles in patients with myocardial infarction (Jougasaki et al). 1990;119:92-6

**Heart ventricle, injuries**

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**Heart ventricle, pathology**

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**Heart ventricle, physiology**

Cumulative effects of cycle length on ventricular refractoriness in man (Brownstein et al). 1990;119:324-30

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On the physiologic role of beta-2 adrenoceptors in the human heart: in vitro and in vivo studies (Motomura et al). 1990;119:608-19

Pulmonary thallium uptake: correlation with systolic and diastolic left ventricular function at rest and during exercise (Mannting). 1990;119:1137-46

**Heart ventricle, physiology, animal**

Effects of multipolar electrode radiofrequency energy delivery on ventricular endocardium (Oeff et al). 1990;119:599-607

**Heart ventricle, physiopathology**

Atrial and ventricular arrhythmias in asymptomatic active elderly subjects: correlation with left atrial size and left ventricular mass (Manyari et al). 1990;119:1069-76

Effect of 24-hour blood pressure and heart rate variations on left ventricular hypertrophy and dilatation in essential hypertension (Mouloupoulos et al). 1990;119:1147-52

Effects of nifedipine on transmitral Doppler blood flow velocity profile in patients with concentric left ventricular hypertrophy (Lee et al). 1990;119:1130-6

**Heart ventricle, physiopathology—Cont'd**

Interstudy reproducibility of dimensional and functional measurements between cine magnetic resonance studies in the morphologically abnormal left ventricle (Semelka et al). 1990;119:1367-73

Iodine-123 phenylpentadecanoic acid myocardial scintigraphy in patients with left ventricular hypertrophy: alterations in left ventricular distribution and utilization (Wolfe et al). 1990;119:1338-47

Left ventricular filling shortly after an uncomplicated myocardial infarction as a predictor of subsequent exercise capacity (Finkelhor et al). 1990;119:85-91

Serial evaluation of right ventricular dysfunction associated with acute inferior myocardial infarction (Yasuda et al). 1990;119:816-22

Serial evaluation of ventricular function after percutaneous aortic balloon valvuloplasty (Harpole et al). 1990;119:130-5

**Heart ventricle, therapy**

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**Helsinki Heart Study**

Reduction in Q wave myocardial infarctions with gemfibrozil in the Helsinki Heart Study (Mänttari et al). 1990;119:991-5

**Hemodialysis**

Cardiac structure and function in continuous ambulatory peritoneal dialysis: influence of blood purification and hypercirculation (Hüting et al). 1990;119:344-52

**Hemodynamics**

Acute antianginal hemodynamic effects of nicardipine in coronary artery disease (Lambert and Pepine). 1990;119:457-62 (Symposium)

Acute pharmacokinetic and hemodynamic effects of intravenous bolus dosing of nicardipine (Cheung et al). 1990;119:438-42 (Symposium)

Clinical pharmacology, pharmacokinetics, and hemodynamic effects of nicardipine (Singh and Josephson). 1990;119:427-34 (Symposium)

Comparison of hemodynamic pressure half-time method and Gorlin formula with Doppler and echocardiographic determinations of mitral valve area in patients with combined mitral stenosis and regurgitation (Fredman et al). 1990;119:121-9

Developmental sequelae of fixed-rate ventricular pacing in the immature canine heart: an electrophysiologic, hemodynamic, and histopathologic evaluation (Karpawich et al). 1990;119:1077-83

Effect of acute hemodynamic decompensation on electrical inducibility of ventricular arrhythmias in patients with dilated cardiomyopathy and complex nonsustained ventricular arrhythmias (Kulick et al). 1990;119:878-83

Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54

Hemodynamic and renin responses to nifedipine in renovascular hypertension (Fiorentini et al). 1990;119:353-6

Hemodynamic effects of intravenous procainamide during ventricular tachycardia (Sharma et al). 1990;119:1034-41

Hemodynamic findings in extrapericardial atrial tamponade (Minella et al). 1990;119:1221-2 (Brief comm.)

Hemodynamics and coronary blood flow during experimental aortic valvuloplasty: comparison of the dual versus the single catheter methods (Moore et al). 1990;119:136-42

Improvement in exercise performance and hemodynamics by labetalol in patients with idiopathic dilated cardiomyopathy (Leung et al). 1990;119:884-90

Intrapericardial "negative" cannon waves during atrioventricular dissociation in large pericardial effusion (Gudipati et al). 1990;119:964-5 (Brief comm.)

Late hemodynamic changes in percutaneous mitral valvuloplasty (Pektas et al). 1990;119:112-20

Nicardipine and propranolol in the treatment of hypertension: similar antihypertensive but dissimilar hemodynamic actions (Ram et al). 1990;119:463-7 (Symposium)

**Hemodynamics, animal**

Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

**Hemopericardium; see Pericardial effusion**



## Heparin

Effects of heparin treatment on collateral development and regional myocardial function in acute myocardial infarction (Ejiri et al). 1990;119:248-53

Heparin-induced thrombocytopenia and arterial thrombosis: alternative therapies (Cola and Ansell). 1990;119:368-74 (Curriculum cardi.)

## Heparin antagonists

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## Heptadecanoic acid; see Margaric acid

## Hibernation

Myocardial hibernation and "embalment" (Bashour and Mason). 1990;119:706-8 (Editorial)

## High blood pressure; see Hypertension entries

## Histamine H<sub>2</sub> receptor blockers

H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4

## Hypertension, drug therapy

Clinical considerations for the use of intravenous nicardipine in the treatment of postoperative hypertension (Kaplan). 1990;119:443-6 (Symposium)

Intravenous nicardipine hydrochloride: treatment of patients with severe hypertension (Wallin). 1990;119:434-7 (Symposium)

Nicardipine and propranolol in the treatment of hypertension: similar antihypertensive but dissimilar hemodynamic actions (Ram et al). 1990;119:463-7 (Symposium)

Nicardipine versus placebo for the treatment of postoperative hypertension (Goldberg et al). 1990;119:446-50 (Symposium)

Treating hypertension and cardiovascular risk: Are there trade-offs? (Grimm). 1990;119:729-32 (Symposium)

Verapamil but not nifedipine impairs left ventricular function during exercise in hypertensive patients (Ashmore et al). 1990;119:636-41

## Hypertension, economics

The economics of hypertension and stroke (Smith). 1990;119:725-8 (Symposium)

## Hypertension, physiopathology

Effect of 24-hour blood pressure and heart rate variations on left ventricular hypertrophy and dilatation in essential hypertension (Mouloupoulos et al). 1990;119:1147-52

## Hypertension, prevention and control

Costs and benefits of risk factor reduction for coronary heart disease: insights from screening and treatment of serum cholesterol (Stason). 1990;119:718-24 (Symposium)

## Hypertension, pulmonary

Noninvasive evaluation of pulmonary artery systolic pressures during dynamic exercise by saline-enhanced Doppler echocardiography (Himelman et al). 1990;119:685-8 (Brief comm.)

Spontaneous long-term survival in single ventricle with pulmonary hypertension (Oliver et al). 1990;119:201-2 (Brief comm.)

## Hypertension, renovascular

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## Hyperventilation

Hyperventilation-induced coronary vasospasm refractory to intracoronary nitroglycerin (Ghio et al). 1990;119:957-60 (Brief comm.)

## Hypochlorous acids

Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

## Hypoplastic left heart syndrome; see Heart defects, congenital

## Hypothyroidism

Cholesterol pericarditis and cardiac tamponade with congenital hypothyroidism in adulthood (Van Buren and Roberts). 1990;119:697-700 (Brief comm.)

## I

## <sup>123</sup>I-meta-iodobenzylguanidine; see Iodine isotopes

## Image interpretation, computer-assisted

Comparison of quantitative coronary angiography to visual estimates of lesion severity pre and post PTCA (Goldberg et al). 1990;119:178-84 (Prog. cardi.)

## Imidazoles

Hemodynamic effects of alinidine (ST 567) at rest and during exercise in patients with chronic congestive heart failure (Koenig et al). 1990;119:1348-54

## Infective endocarditis; see Endocarditis, bacterial

## Infusions, intravenous

Acute pharmacokinetic and hemodynamic effects of intravenous bolus dosing of nicardipine (Cheung et al). 1990;119:438-42 (Symposium)

Clinical considerations for the use of intravenous nicardipine in the treatment of postoperative hypertension (Kaplan). 1990;119:443-6 (Symposium)

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## Interatrial septum; see Heart septum

## Interleukin 2

Complete heart block due to interleukin-2 therapy (Vaitkus et al). 1990;119:978-80 (Brief comm.)

## Intra Hisian bundle-branch block; see Heart block

## Intracardiac thrombi; see Coronary thrombosis

## Intravenous drug delivery system; see Infusions, intravenous

## Iodine isotopes

Early assessment of tissue viability with radioiodinated heptadecanoic acid in reperfused canine myocardium: comparison with thallium-201 (Chappuis et al). 1990;119:833-41

Iodine-123 phenylpentadecanoic acid myocardial scintigraphy in patients with left ventricular hypertrophy: alterations in left ventricular distribution and utilization (Wolfe et al). 1990;119:1338-47

Quantitative analysis of <sup>123</sup>I-meta-iodobenzylguanidine (MIBG) uptake in hypertrophic cardiomyopathy (Nakajima et al). 1990;119:1329-37

## Iron, deficiency

Iron depletion and coronary disease (Laufer) (Letter); (Sullivan) (Reply). 1990;119:1448-9

## Ischemia

ST deviation in right chest leads V<sub>3</sub>R to V<sub>3</sub>R during percutaneous transluminal coronary angioplasty (Andersen et al). 1990;119:490-3

## Ischemia, myocardial; see Myocardium, blood supply

## Ischemic heart disease; see Coronary disease entries

## Isoenzymes

Atypical creatine kinase MB isozyme in an elderly patient without evidence of myocardial infarction or underlying malignancy (Streiff and Mehta). 1990;119:693-4 (Brief comm.)

## Isoprenaline; see Isoproterenol

## Isoproterenol

Evidence against spare or uncoupled  $\beta$ -adrenoceptors in the human heart (Schwinger et al). 1990;119:899-904

## Isosorbide

Inhibition of platelet function during in vivo infusion of isosorbide mononitrates: relationship between plasma drug concentration and hemodynamic effects (De Caterina et al). 1990;119:855-62

## K

## Kawasaki disease; see Mucocutaneous lymph node syndrome

## L

## Labetalol

Improvement in exercise performance and hemodynamics by labetalol in patients with idiopathic dilated cardiomyopathy (Leung et al). 1990;119:884-90

## Left ventricle; see Heart ventricle entries

## Left ventricular filling; see Heart ventricle, physiology

## Leisure activities

Prognostic significance of daily physical activity after first acute myocardial infarction (Kitajima et al). 1990;119:1193-4 (Brief comm.)

## Letters

Aortic regurgitation in Crohn's disease (O'Mahony) (Letter); (Leung) (Letter); (Burdick and Tresch) (Reply). 1990;119:1444-6

Atrial natriuretic peptide after acute myocardial infarction (Ray et al). 1990;119:1449

**Letters—Cont'd**

- Balloon rupture during valvuloplasty (Rao) (Letter); (Dev and Shrivastava) (Reply). 1990;119:1441-2
- Double Wenckebach phenomenon (Kinoshita and Konishi) (Letter); (Oreto et al) (Reply). 1990;119:1450-2
- Enoximone (Treese and Pop). 1990;119:1450
- H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4
- Iron depletion and coronary disease (Lauffer) (Letter); (Sullivan) (Reply). 1990;119:1448-9
- Pericardial drainage (Spodick) (Letter); (Kotler) (Reply). 1990;119:1449-50
- Selection of antihypertensive therapy (Richards et al) (Letter); (Houston) (Reply). 1990;119:1446-8

**Leukocytes**

- Stable angina pectoris and controlled ischemia: What causes the abnormalities in whole blood filterability? (Ciuffetti et al). 1990;119:54-8

**Lidocaine**

- Parasympathetically modulated antiarrhythmic action of lidocaine in atrial fibrillation (David et al). 1990;119:1061-8

**Lipoma**

- Cardiac lipoma in the interventricular septum: evaluation by computed tomography and magnetic resonance imaging (Kammiya et al). 1990;119:1215-7 (Brief comm.)
- Lipomatous hypertrophy of the interatrial septum: diagnosis by percutaneous transvenous biopsy (Stone et al). 1990;119:406-8 (Brief comm.)

**Lipoprotein, HDL cholesterol**

- Effects of different exercise training intensities on lipoprotein cholesterol fractions in healthy middle-aged men (Stein et al). 1990;119:277-83

**Lipoprotein, LDL cholesterol**

- Effects of different exercise training intensities on lipoprotein cholesterol fractions in healthy middle-aged men (Stein et al). 1990;119:277-83

**Lipoprotein, VLDL cholesterol**

- Effects of different exercise training intensities on lipoprotein cholesterol fractions in healthy middle-aged men (Stein et al). 1990;119:277-83

**Lupus erythematosus, systemic**

- Fatal cardiac tamponade in systemic lupus erythematosus—a hazard of anticoagulation (Leung et al). 1990;119:422-3 (Brief comm.)

**Lutembacher's syndrome**

- Iatrogenic Lutembacher's syndrome after percutaneous transluminal mitral valvotomy (Chen et al). 1990;119:209-11 (Brief comm.)

**Lymphoma**

- Malignant lymphoma compressing the heart and causing acute left-sided heart failure (Iwase et al). 1990;119:968-70 (Brief comm.)
- Role of echocardiography in the diagnosis of cardiac lymphoma (Van Veldhuisen et al). 1990;119:973-7 (Brief comm.)

**M****Magnesium sulfate**

- Prospective evaluation of parenteral magnesium sulfate in the treatment of patients with reentrant AV supraventricular tachycardia (Sager et al). 1990;119:308-16

**Magnetic resonance imaging**

- Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)
- Cardiac lipoma in the interventricular septum: evaluation by computed tomography and magnetic resonance imaging (Kammiya et al). 1990;119:1215-7 (Brief comm.)
- Interstudy reproducibility of dimensional and functional measurements between cine magnetic resonance studies in the morphologically abnormal left ventricle (Semelka et al). 1990;119:1367-73
- Magnetic resonance imaging of myocardial infarction in Kawasaki disease (Niwa et al). 1990;119:1293-1302

**Magnetic resonance spectroscopy; see Nuclear magnetic resonance****Margaric acid**

- Early assessment of tissue viability with radioiodinated heptadecanoic acid in reperfused canine myocardium: comparison with thallium-201 (Chappuis et al). 1990;119:833-41

**Metastasis; see Neoplasm metastasis****Methionine**

- Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

**Metoprolol**

- H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4
- Use of heart rate spectral analysis to study the effects of calcium channel blockers on sympathetic activity after myocardial infarction (Bekheit et al). 1990;119:79-85

**Microscopy**

- Combined mechanical and chemical thrombolysis in an experimental animal model: evaluation by angiography and angioscopy (Ritchie et al). 1990;119:64-72

- Percutaneous left ventricular endomyocardial biopsy with angiographic guidance in patients with dilated cardiomyopathy (Uchida et al). 1990;119:949-52 (Brief comm.)

**Mitral regurgitation; see Mitral valve insufficiency****Mitral valve**

- Accuracy of mitral Doppler echocardiographic cardiac output determinations in adults (Miller et al). 1990;119:905-10

- Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)

- Combined percutaneous balloon valvuloplasty of mitral and tricuspid valves (Bethencourt et al). 1990;119:416-8 (Brief comm.)

- Comparison of hemodynamic pressure half-time method and Gorlin formula with Doppler and echocardiographic determinations of mitral valve area in patients with combined mitral stenosis and regurgitation (Fredman et al). 1990;119:121-9

**Mitral valve insufficiency**

- Acute mitral regurgitation with cardiogenic shock in a patient with hypertrophic cardiomyopathy: a critical management dilemma (Hilton et al). 1990;119:1205-7 (Brief comm.)

- Comparison of hemodynamic pressure half-time method and Gorlin formula with Doppler and echocardiographic determinations of mitral valve area in patients with combined mitral stenosis and regurgitation (Fredman et al). 1990;119:121-9

- Left ventricular outflow obstruction caused by mitral ring calcification (Iga and Hori). 1990;119:418-9 (Brief comm.)

- Relation of echocardiographic morphology of the mitral apparatus to mitral regurgitation in mitral valve prolapse: assessment by Doppler color flow imaging (Grayburn et al). 1990;119:1095-102

- Transesophageal echocardiographic recognition of mitral valve abnormalities associated with aortic valve endocarditis (Karlalis et al). 1990;119:1209-11 (Brief comm.)

**Mitral valve regurgitation; see Mitral valve insufficiency****Mitral valve replacement; see Heart valve prosthesis****Mitral valve stenosis**

- Anterolateral myocardial rupture following mitral valve replacement: transesophageal echo documentation of ischemic etiology (Blondheim et al). 1990;119:681-3 (Brief comm.)

- Baseline and post-atrial pacing release of atrial natriuretic factor in mitral stenosis (Malatino et al). 1990;119:97-101

- Comparison of hemodynamic pressure half-time method and Gorlin formula with Doppler and echocardiographic determinations of mitral valve area in patients with combined mitral stenosis and regurgitation (Fredman et al). 1990;119:121-9

- Comparison of single rubber-nylon balloon and double polyethylene balloon valvuloplasty in 94 patients with rheumatic mitral stenosis (Chen et al). 1990;119:102-11

- Iatrogenic Lutembacher's syndrome after percutaneous transluminal mitral valvotomy (Chen et al). 1990;119:209-11 (Brief comm.)

- Late hemodynamic changes in percutaneous mitral valvuloplasty (Pektas et al). 1990;119:112-20

- Left ventricular outflow obstruction caused by mitral ring calcification (Iga and Hori). 1990;119:418-9 (Brief comm.)

- Percutaneous valvuloplasty as a treatment for aortic and mitral valve disease (Strauss and Marquis). 1990;119:1184-92 (Prog. cardiol.)

- Successive percutaneous double-balloon mitral, aortic, and tricuspid valvotomy in rheumatic trivalvular stenoses (Konugres et al). 1990;119:663-6 (Brief comm.)

- Transarterial mitral valvuloplasty in conditions of acute pulmonary edema (Romero et al). 1990;119:1416-9 (Brief comm.)

**Monoclonal antibodies; see Antibodies, monoclonal**

**Moraxella**

*Moraxella* endocarditis following balloon angioplasty of aortic coarctation (Sanyal et al). 1990;119:1421-3 (Brief comm.)

**Moricizine**

Efficacy and safety of moricizine in patients with congestive heart failure: a summary of the experience in the United States (Pratt et al). 1990;119:1-7

**Mucocutaneous lymph node syndrome**

Magnetic resonance imaging of myocardial infarction in Kawasaki disease (Niwa et al). 1990;119:1293-1302

**Muscular dystrophy**

Cardiomyopathy and pulmonary emboli in terminal Duchenne's muscular dystrophy (Riggs). 1990;119:690-3 (Brief comm.)

**Myocardial blood supply; see Myocardium, blood supply**

**Myocardial contusion; see Contusions**

**Myocardial infarction, animal**

Myocardial protection with autoperfusion during prolonged coronary artery occlusion (Zalewski et al). 1990;119:41-6

Relationship between regional myocardial blood flow and the distribution of <sup>99m</sup>Tc-sestamibi in the presence of total coronary artery occlusion (Mousa et al). 1990;119:842-7

**Myocardial infarction, complications**

Angina and threatened acute myocardial infarction after cardiac transplantation (Ramsdale and Bellamy). 1990;119:1195-7 (Brief comm.)

Factors associated with late onset of advanced atrioventricular block in acute Q wave inferior infarction (Sugiura et al). 1990;119:1008-13

Impact of atrial fibrillation on the in-hospital and long-term survival of patients with acute myocardial infarction: a community-wide perspective (Goldberg et al). 1990;119:996-1001

Magnetic resonance imaging of myocardial infarction in Kawasaki disease (Niwa et al). 1990;119:1293-1302

Prognostic significance of complete atrioventricular block in patients with acute inferior myocardial infarction with and without right ventricular involvement (Mavric et al). 1990;119:823-8

Right ventricular infarction as a risk factor for ventricular fibrillation during pulmonary artery catheterization using Swan-Ganz catheters (López-Sendón et al). 1990;119:207-9 (Brief comm.)

Serial evaluation of right ventricular dysfunction associated with acute inferior myocardial infarction (Yasuda et al). 1990;119:816-22

Urgent surgical removal of a rapidly growing left ventricular thrombus following acute myocardial infarction (Leor et al). 1990;119:199-201 (Brief comm.)

**Myocardial infarction, complications, animal**

Reentrant ventricular arrhythmias in the late myocardial infarction period. 17. Correlation of activation patterns of sinus and reentrant ventricular tachycardia (Assadi et al). 1990;119:1014-24

**Myocardial infarction, diagnosis**

Atypical creatine kinase MB isozyme in an elderly patient without evidence of myocardial infarction or underlying malignancy (Streiff and Mehta). 1990;119:693-4 (Brief comm.)

The electrocardiographic diagnosis of acute myocardial infarction in the thrombolytic era (Schweitzer). 1990;119:642-54 (Curriculum cardioid.)

Inferior infarction with large nonapical mobile thrombus mimicking myxoma (Kjøller et al). 1990;119:402-4 (Brief comm.)

Limitations of the exercise test as a screen for acute cardiac events in asymptomatic patients (Coplan and Fuster). 1990;119:987-90 (Editorial)

Painless myocardial infarction in the elderly (Muller et al). 1990;119:202-4 (Brief comm.)

Simulation of acute myocardial infarction by desipramine hydrochloride (Borganeli and Forman). 1990;119:1413-4 (Brief comm.)

ST deviation in right chest leads V<sub>3</sub>R to V<sub>7</sub>R during percutaneous transluminal coronary angioplasty (Andersen et al). 1990;119:490-3

**Myocardial infarction, drug therapy**

Effects of heparin treatment on collateral development and regional myocardial function in acute myocardial infarction (Ejiri et al). 1990;119:248-53

Reduction in Q wave myocardial infarctions with gemfibrozil in the Helsinki Heart Study (Mänttari et al). 1990;119:991-5

Relationship between antecedent angina pectoris and short-term prognosis after thrombolytic therapy for acute myocardial infarction (Muller et al). 1990;119:224-31

**Myocardial infarction, drug therapy—Cont'd**

Superiority of warfarin over aspirin long term after thrombolytic therapy for acute myocardial infarction (Schreiber et al). 1990;119:1238-44

Use of heart rate spectral analysis to study the effects of calcium channel blockers on sympathetic activity after myocardial infarction (Bekheit et al). 1990;119:79-85

Value of immediate angioplasty after intravenous streptokinase in acute myocardial infarction (El Deeb et al). 1990;119:786-90

**Myocardial infarction, drug therapy, animal**

Sustained beneficial effects of gallopamil (D600) on size of myocardial infarction 24 hours after coronary artery occlusion in dogs (Endo et al). 1990;119:1002-7

**Myocardial infarction, epidemiology**

Prognostic significance of daily physical activity after first acute myocardial infarction (Kitajima et al). 1990;119:1193-4 (Brief comm.)

**Myocardial infarction, immunology**

Appearance of atrial natriuretic peptide in the ventricles in patients with myocardial infarction (Jougasaki et al). 1990;119:92-6

Atrial natriuretic peptide after acute myocardial infarction (Ray et al). 1990;119:1449 (Letter)

**Myocardial infarction, physiopathology**

Beneficial effect of residual flow to the infarct region on left ventricular volume changes after acute myocardial infarction (Shen et al). 1990;119:525-9

Left ventricular filling shortly after an uncomplicated myocardial infarction as a predictor of subsequent exercise capacity (Finkelhor et al). 1990;119:85-91

Prognostic value of abnormal postexercise systolic blood pressure response: prehospital discharge test after myocardial infarction in Japan (Kato et al). 1990;119:264-71

Ten-year survival of patients with mild angina or myocardial infarction without angina: a comparison of medical and surgical treatment (Proudfit et al). 1990;119:942-8 (Prog. cardioid.)

**Myocardial infarction, prevention**

Prognostic value of abnormal postexercise systolic blood pressure response: prehospital discharge test after myocardial infarction in Japan (Kato et al). 1990;119:264-71

Reduction in Q wave myocardial infarctions with gemfibrozil in the Helsinki Heart Study (Mänttari et al). 1990;119:991-5

**Myocardial infarction, therapy**

Acute myocardial infarction complicating percutaneous aortic valvuloplasty successfully treated by percutaneous coronary angioplasty (Romanello et al). 1990;119:953-5 (Brief comm.)

The effects of long-term antithrombotic treatment on left ventricular thrombi in patients after an acute myocardial infarction (Kouvaras et al). 1990;119:73-8

Evaluation of the effect of thrombolytic treatment on infarct size and left ventricular function by enzymatic, scintigraphic, and angiographic methods (Mortelmans et al). 1990;119:1231-7

One-year outcome after therapy with tissue plasminogen activator: report from the Thrombolysis and Angioplasty in Myocardial Infarction trial (Califf et al). 1990;119:777-85

Relationship between antecedent angina pectoris and short-term prognosis after thrombolytic therapy for acute myocardial infarction (Muller et al). 1990;119:224-31

Thrombolytic therapy in coronary ectasia and acute myocardial infarction (Rab et al). 1990;119:955-7 (Brief comm.)

Value of immediate angioplasty after intravenous streptokinase in acute myocardial infarction (El Deeb et al). 1990;119:786-90

**Myocardial reperfusion**

Beneficial effect of residual flow to the infarct region on left ventricular volume changes after acute myocardial infarction (Shen et al). 1990;119:525-9

Early assessment of tissue viability with radioiodinated heptadecanoic acid in reperfused canine myocardium: comparison with thallium-201 (Chappuis et al). 1990;119:833-41

The effects of propranolol on regional cardiac metabolism during ischemia and reperfusion assessed by magnetic resonance spectroscopy (Kavanaugh et al). 1990;119:1274-9

Myocardial protection with autoperfusion during prolonged coronary artery occlusion (Zalewski et al). 1990;119:41-6

Regional myocardial blood flow with a reperfusion catheter and an autoperfusion balloon catheter during total coronary occlusion (Christensen et al). 1990;119:242-8



**Myocardial reperfusion—Cont'd**

- Relationship between antecedent angina pectoris and short-term prognosis after thrombolytic therapy for acute myocardial infarction (Muller et al). 1990;119:224-31
- Synergism between superoxide dismutase and sodium nitrite in cardioprotection following ischemia and reperfusion (Johnson et al). 1990;119:530-7

**Myocardial revascularization**

- The spectrum of symptomatic coronary air embolism during balloon angioplasty: causes, consequences and management (Kahn and Hartzler). 1990;119:1374-7 (Curriculum cardiol.)

**Myocardial rupture; see Heart rupture****Myocardium, blood supply**

- Beneficial effect of residual flow to the infarct region on left ventricular volume changes after acute myocardial infarction (Shen et al). 1990;119:525-9
- Circulating immunoreactive endothelin in ischemic heart disease (Yasuda et al). 1990;119:801-6
- Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels (de Albuquerque et al). 1990;119:1197-9 (Brief comm.)
- Delayed recovery of revascularized myocardium after referral for cardiac transplantation (Luu et al). 1990;119:668-70 (Brief comm.)
- The effect of baseline electrocardiographic abnormalities on the diagnostic accuracy of exercise-induced ST segment changes (Meyers et al). 1990;119:272-6
- Effect of baseline ST segment elevation on test performance of standard and heart rate-adjusted ST segment depression criteria (Okim et al). 1990;119:1280-6
- Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54
- Ethanol-induced coronary vasodilation in patients with and without coronary artery disease (Cigarroa et al). 1990;119:254-9
- Exercise-induced impairment of diastolic time in patients with X syndrome (Spinelli et al). 1990;119:829-33
- Exercise-induced silent myocardial ischemia: evaluation by thallium-201 emission computed tomography (Kurata et al). 1990;119:557-67
- Exercise-induced silent myocardial ischemia in patients with vasospastic angina (Aoki et al). 1990;119:551-6
- Exercise-induced T wave normalization is not specific for myocardial ischemia detected by perfusion scintigraphy (Frais and Hoeschen). 1990;119:1225-9 (Brief comm.)
- Mechanisms of pain perception in patients with silent myocardial ischemia (Sheps et al). 1990;119:983-7 (Editorial)
- Myocardial hibernation and "embalment" (Bashour and Mason). 1990;119:706-8 (Editorial)
- Percutaneous transluminal coronary angioplasty in silent ischemia (Tuzcu et al). 1990;119:797-801
- Stable angina pectoris and controlled ischemia: What causes the abnormalities in whole blood filterability? (Ciuffetti et al). 1990;119:54-8
- Synergism between superoxide dismutase and sodium nitrite in cardioprotection following ischemia and reperfusion (Johnson et al). 1990;119:530-7
- Transient pulsus alternans during acute myocardial ischemia and its resolution following  $\beta$ -adrenergic blockade (Giudici and Savage). 1990;119:960-2 (Brief comm.)

**Myocardium, blood supply, animal**

- Early assessment of tissue viability with radioiodinated heptadecanoic acid in reperfused canine myocardium: comparison with thallium-201 (Chappuis et al). 1990;119:833-41
- Effect of stenosis on exercise-induced dilation of large coronary arteries (Schwartz et al). 1990;119:520-4
- Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias (Bekheit et al). 1990;119:1025-33
- The effects of propranolol on regional cardiac metabolism during ischemia and reperfusion assessed by magnetic resonance spectroscopy (Kavanaugh et al). 1990;119:1274-9
- Hemodynamics and coronary blood flow during experimental aortic valvuloplasty: comparison of the dual versus the single catheter methods (Moore et al). 1990;119:136-42
- Myocardial protection with autoperfusion during prolonged coronary artery occlusion (Zalewski et al). 1990;119:41-6

**Myocardium, blood supply, animal—Cont'd**

- Relationship between regional myocardial blood flow and the distribution of  $^{99m}\text{Tc}$ -sestamibi in the presence of total coronary artery occlusion (Mousa et al). 1990;119:842-7

**Myocardium, drug effects**

- Myocardial energetics and efficiency in patients with idiopathic cardiomyopathy: response to dobutamine and amrinone (Sundram et al). 1990;119:891-8

**Myocardium, physiology**

- Effect of flosequinan (BTS 49465) on myocardial oxygen consumption (Greenberg et al). 1990;119:1355-66
- On the physiologic role of beta-2 adrenoceptors in the human heart: in vitro and in vivo studies (Motomura et al). 1990;119:608-19

**Myocardium, physiopathology**

- In vivo infusion of oxygen free radical substrates causes myocardial systolic, but not diastolic dysfunction (Przyklenk et al). 1990;119:807-15

**Myxoma**

- The echocardiographic recognition of an atrial myxoma vegetation (Tunick et al). 1990;119:679-80 (Brief comm.)
- Inferior infarction with large nonapical mobile thrombus mimicking myxoma (Kjoller et al). 1990;119:402-4 (Brief comm.)

**N****Naftidrofuryl**

- Measuring costs and financial benefits in randomized controlled trials (Bulpitt and Fletcher). 1990;119:766-71 (Symposium)

**Natriuretic peptides, atrial**

- Appearance of atrial natriuretic peptide in the ventricles in patients with myocardial infarction (Jougasaki et al). 1990;119:92-6

- Atrial natriuretic peptide after acute myocardial infarction (Ray et al). 1990;119:1449 (Letter)

- Baseline and post-atrial pacing release of atrial natriuretic factor in mitral stenosis (Malatino et al). 1990;119:97-101

**Necrotizing angitis; see Vasculitis****Neoplasm metastasis**

- Right heart metastatic endocardial implants: echocardiographic and pathologic correlation (Rey et al). 1990;119:1217-20 (Brief comm.)

**Neurologic manifestations**

- Amiodarone toxicity: myopathy and neuropathy (Roth et al). 1990;119:1223-5 (Brief comm.)

**Neutrophils**

- Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50

**Nicardipine**

- Acute antianginal hemodynamic effects of nicardipine in coronary artery disease (Lambert and Pepine). 1990;119:457-62 (Symposium)

- Acute pharmacokinetic and hemodynamic effects of intravenous bolus dosing of nicardipine (Cheung et al). 1990;119:438-42 (Symposium)

- Clinical considerations for the use of intravenous nicardipine in the treatment of postoperative hypertension (Kaplan). 1990;119:443-6 (Symposium)

- Clinical pharmacology, pharmacokinetics, and hemodynamic effects of nicardipine (Singh and Josephson). 1990;119:427-34 (Symposium)

- Intravenous nicardipine hydrochloride: treatment of patients with severe hypertension (Wallin). 1990;119:434-7 (Symposium)

- Nicardipine and propranolol in the treatment of hypertension: similar antihypertensive but dissimilar hemodynamic actions (Ram et al). 1990;119:463-7 (Symposium)

- Nicardipine versus placebo for the treatment of postoperative hypertension (Goldberg et al). 1990;119:446-50 (Symposium)

- Randomized double-blind comparison of side effects of nicardipine and nifedipine in angina pectoris (DeWood et al). 1990;119:468-78 (Symposium)

- Symposium on vasoselective calcium channel blockade: studies with oral and intravenous nicardipine—introduction (Weber). 1990;119:425-6 (Symposium)

- Techniques for assessing inotropic effects of drugs in patients with heart failure: application to the evaluation of nicardipine (Fifer et al). 1990;119:451-6 (Symposium)



## Nifedipine

- Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients (Kern et al). 1990;119:47-54
- Effects of nifedipine on transmitral Doppler blood flow velocity profile in patients with concentric left ventricular hypertrophy (Lee et al). 1990;119:1130-6
- H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4
- Hemodynamic and renin responses to nifedipine in renovascular hypertension (Fiorentini et al). 1990;119:353-6
- Negative inotropic effect of intravenous nifedipine in coronary artery disease: relation to plasma levels (Clifton et al). 1990;119:283-90
- Randomized double-blind comparison of side effects of nifedipine and nifedipine in angina pectoris (DeWood et al). 1990;119:468-78 (Symposium)
- Sustained-release nifedipine (nifedipine-L) suppresses plasma thromboxane B<sub>2</sub> and 6-keto prostaglandin F<sub>1α</sub> in both young male smokers and nonsmokers (Nakashima et al). 1990;119:1267-73
- Use of heart rate spectral analysis to study the effects of calcium channel blockers on sympathetic activity after myocardial infarction (Bekheit et al). 1990;119:79-85
- Verapamil but not nifedipine impairs left ventricular function during exercise in hypertensive patients (Ashmore et al). 1990;119:636-41

## Nitrates

- Inhibition of platelet function during in vivo infusion of isosorbide mononitrates: relationship between plasma drug concentration and hemodynamic effects (De Caterina et al). 1990;119:855-62

## Nitroglycerin; see Glyceryl trinitrate

## Nonbacterial thrombotic endocarditis; see Endocarditis

## Noonan syndrome

- Congenital coronary artery anomalies in Noonan's syndrome (Wong et al). 1990;119:396-400 (Brief comm.)

## Nuclear magnetic resonance

- The effects of propranolol on regional cardiac metabolism during ischemia and reperfusion assessed by magnetic resonance spectroscopy (Kavanaugh et al). 1990;119:1274-9
- Nuclear magnetic resonance imaging of the pulmonary arteries, subpulmonary region, and aorticopulmonary shunts: a comparative study with two-dimensional echocardiography and angiography (Vick et al). 1990;119:1103-10

## O

## Open heart surgery, adverse effects; see Heart surgery, adverse effects

## Oxygen, metabolism

- In vivo infusion of oxygen free radical substrates causes myocardial systolic, but not diastolic dysfunction (Przyklenk et al). 1990;119:807-15

## Oxygen consumption

- Effect of flosequinan (BTS 49465) on myocardial oxygen consumption (Greenberg et al). 1990;119:1355-66

## Oxygen free radicals; see Free radicals

## P

## Pacemaker, artificial

- Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator (Mügge et al). 1990;119:1437-9 (Brief comm.)
- The effects of atrial pacing on the signal-averaged electrocardiogram in patients with coronary artery disease (Greenspon and Volosin). 1990;119:29-34
- Stepwise approach to the unknown pacemaker ECG (Garson). 1990;119:924-41 (Curriculum cardiol.)

## Packed red cells; see Blood transfusion

## Pain

- Mechanisms of pain perception in patients with silent myocardial ischemia (Sheps et al). 1990;119:983-7 (Editorial)

## Papaverine

- Circulatory collapse following coronary bypass surgery: multi-vessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine (Gurley et al). 1990;119:1194-5 (Brief comm.)

## Papillary muscles

- Delayed rupture of tricuspid papillary muscle following blunt chest trauma (Hilton et al). 1990;119:1410-2 (Brief comm.)

## Percutaneous balloon dilatation; see Balloon dilatation

## Percutaneous mitral balloon valvuloplasty; see Balloon dilatation

## Percutaneous transluminal coronary angioplasty; see

## Angioplasty, transluminal, percutaneous coronary

## Percutaneous transvenous biopsy; see Biopsy

## Percutaneous valvuloplasty; see Angioplasty, transluminal, percutaneous coronary

## Periarteritis nodosa

- Intramural coronary angiitis of periarteritis nodosa proved by endomyocardial biopsy (Sugihara et al). 1990;119:1414-6 (Brief comm.)

## Pericardial effusion

- Cholesterol pericarditis and cardiac tamponade with congenital hypothyroidism in adulthood (Van Buren and Roberts). 1990;119:697-700 (Brief comm.)

- Diagnostic implications of the echocardiographically demonstrated pericardial peel (Blickman et al). 1990;119:965-8 (Brief comm.)

- Frequency and significance of chamber collapses during cardiac tamponade (Reydel and Spodick). 1990;119:1160-3 (Curriculum cardiol.)

- Hemodynamic findings in extrapericardial atrial tamponade (Minella et al). 1990;119:1221-2 (Brief comm.)

- Intrapericardial "negative" cannon waves during atrioventricular dissociation in large pericardial effusion (Gudipati et al). 1990;119:964-5 (Brief comm.)

- Right ventricular pseudoaneurysm following repair of tetralogy of Fallot (Wheller et al). 1990;119:1207-9 (Brief comm.)

## Pericardial tamponade; see Cardiac tamponade

## Pericardiectomy

- Diagnostic implications of the echocardiographically demonstrated pericardial peel (Blickman et al). 1990;119:965-8 (Brief comm.)

## Pericarditis

- Cholesterol pericarditis and cardiac tamponade with congenital hypothyroidism in adulthood (Van Buren and Roberts). 1990;119:697-700 (Brief comm.)

## Pericardium

- Pericardial drainage (Spodick) (Letter); (Kotler) (Reply). 1990;119:1449-50

## Peritoneal dialysis, continuous ambulatory; see also Dialysis

- Cardiac structure and function in continuous ambulatory peritoneal dialysis: influence of blood purification and hypercirculation (Hüting et al). 1990;119:344-52

## Pharmacokinetics

- Acute pharmacokinetic and hemodynamic effects of intravenous bolus dosing of nicardipine (Cheung et al). 1990;119:438-42 (Symposium)

- Clinical pharmacology, pharmacokinetics, and hemodynamic effects of nicardipine (Singh and Josephson). 1990;119:427-34 (Symposium)

## Pharmacology, clinical

- Clinical pharmacology, pharmacokinetics, and hemodynamic effects of nicardipine (Singh and Josephson). 1990;119:427-34 (Symposium)

## Phonocardiography

- Asynchronous leaflet closure in the normally functioning bileaflet mechanical valve (Donnerstein and Allen). 1990;119:694-7 (Brief comm.)

## Placebos

- Nicardipine versus placebo for the treatment of postoperative hypertension (Goldberg et al). 1990;119:446-50 (Symposium)

## Plasminogen activator, tissue-type

- Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator (Mügge et al). 1990;119:1437-9 (Brief comm.)

- Evaluation of the effect of thrombolytic treatment on infarct size and left ventricular function by enzymatic, scintigraphic, and angiographic methods (Mortelmans et al). 1990;119:1231-7

- One-year outcome after therapy with tissue plasminogen activator: report from the Thrombolysis and Angioplasty in Myocardial Infarction trial (Califf et al). 1990;119:777-85

**Plasminogen activator, tissue-type—Cont'd**

Thrombolysis with recombinant tissue plasminogen activator in late saphenous vein graft thrombosis (Blanck et al). 1990;119:952-3 (Brief comm.)

Tissue plasminogen activator followed by percutaneous transluminal coronary angioplasty: one-year TIMI phase II pilot results (Chaitman et al). 1990;119:213-20

**Platelet aggregation**

Sustained-release nifedipine (nifedipine-L) suppresses plasma thromboxane B<sub>2</sub> and 6-keto prostaglandin F<sub>1α</sub> in both young male smokers and nonsmokers (Nakashima et al). 1990;119:1267-73

**Platelet aggregation inhibitors**

Inhibition of platelet function during in vivo infusion of isosorbide mononitrates: relationship between plasma drug concentration and hemodynamic effects (De Caterina et al). 1990;119:855-62

The role of antiplatelet agents in modifying the extent of restenosis following percutaneous transluminal coronary angioplasty (Schwartz et al). 1990;119:232-6

**Platelet function tests**

The bleeding time: its potential utility among patients receiving thrombolytic therapy (Hirsch and Goldhaber). 1990;119:158-67 (Curriculum cardiol.)

**Polymorphonuclear leukocytes; see Neutrophils****Potassium**

Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias (Bekheit et al). 1990;119:1025-33

**Pregnancy complications, cardiovascular**

Coadministration of flecainide acetate and sotalol during pregnancy: lack of teratogenic effects, passage across the placenta, and excretion in human breast milk (Wagner et al). 1990;119:700-2 (Brief comm.)

**Premature ventricular complexes; see Arrhythmia; Extrasystole****Prenatal diagnosis**

Isolated congenital left ventricular diverticulum—echocardiographic features in a fetus (Kitchiner et al). 1990;119:1435-7 (Brief comm.)

**Preoperative care**

Use of coronary arteriography in the preoperative management of patients undergoing urgent repair of the thoracic aorta (Kern et al). 1990;119:143-8

**Pressoreceptors**

Arterial baroreceptor control of peripheral vascular resistance in experimental heart failure (Wilson et al). 1990;119:1122-30

**Procainamide**

Hemodynamic effects of intravenous procainamide during ventricular tachycardia (Sharma et al). 1990;119:1034-41

**Prognosis**

Morphologic findings in saphenous veins used as coronary arterial bypass conduits for longer than 1 year: necropsy analysis of 53 patients, 123 saphenous veins, and 1865 five-millimeter segments of veins (Kalan and Roberts). 1990;119:1164-84 (Prog. cardiol.)

Prediction of outcome in late-stage cardiomyopathy (Kelly et al). 1990;119:1111-21

Prognostic significance of complete atrioventricular block in patients with acute inferior myocardial infarction with and without right ventricular involvement (Mavric et al). 1990;119:823-8

Prognostic significance of daily physical activity after first acute myocardial infarction (Kitajima et al). 1990;119:1193-4 (Brief comm.)

Relationship between antecedent angina pectoris and short-term prognosis after thrombolytic therapy for acute myocardial infarction (Muller et al). 1990;119:224-31

Restenosis following coronary angioplasty (Fanelli and Aronoff). 1990;119:357-68 (Curriculum cardiol.)

**Programmed electrical stimulation; see Electric stimulation****Programmed stimulation; see Cardiac pacing, artificial****Progress in cardiology**

Progress in cardiology. 1990;119:168-84, 375-89, 655-62, 942-8, 1164-92, 1392-1405

**Propranolol**

Control of multiform ventricular tachycardia by propranolol in a child with no identifiable cardiac disease and sudden death (de Paola et al). 1990;119:1429-32 (Brief comm.)

**Propranolol—Cont'd**

The effects of propranolol on regional cardiac metabolism during ischemia and reperfusion assessed by magnetic resonance spectroscopy (Kavanaugh et al). 1990;119:1274-9

H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4

Nicardipine and propranolol in the treatment of hypertension: similar antihypertensive but dissimilar hemodynamic actions (Ram et al). 1990;119:463-7 (Symposium)

**Prostacyclins; see Prostaglandins X****Prostaglandins E**

Physiologic role of coronary PGI<sub>2</sub> and PGE<sub>2</sub> in modulating coronary vascular response to sympathetic stimulation (Neri Serneri et al). 1990;119:848-54

**Prostaglandins F**

Sustained-release nifedipine (nifedipine-L) suppresses plasma thromboxane B<sub>2</sub> and 6-keto prostaglandin F<sub>1α</sub> in both young male smokers and nonsmokers (Nakashima et al). 1990;119:1267-73

**Prostaglandins X**

Physiologic role of coronary PGI<sub>2</sub> and PGE<sub>2</sub> in modulating coronary vascular response to sympathetic stimulation (Neri Serneri et al). 1990;119:848-54

**Pulmonary artery**

Noninvasive evaluation of pulmonary artery systolic pressures during dynamic exercise by saline-enhanced Doppler echocardiography (Himelman et al). 1990;119:685-8 (Brief comm.)

Nuclear magnetic resonance imaging of the pulmonary arteries, subpulmonary region, and aorticopulmonary shunts: a comparative study with two-dimensional echocardiography and angiography (Vick et al). 1990;119:1103-10

**Pulmonary circulation, abnormalities**

Functional pulmonary atresia: color flow recognition and treatment with extracorporeal membrane oxygenation (Weinhaus et al). 1990;119:980-2 (Brief comm.)

**Pulmonary edema**

Transarterial mitral valvuloplasty in conditions of acute pulmonary edema (Romero et al). 1990;119:1416-9 (Brief comm.)

**Pulmonary embolism**

Cardiomyopathy and pulmonary emboli in terminal Duchenne's muscular dystrophy (Riggs). 1990;119:690-3 (Brief comm.)

Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator (Mügge et al). 1990;119:1437-9 (Brief comm.)

**Pulmonary hypertension; see Hypertension, pulmonary****Pulmonary sequestration; see Bronchopulmonary sequestration****Pulmonary valve stenosis**

Balloon valvuloplasty of a subpulmonic membrane (Vacek and Goertz). 1990;119:1419-21 (Brief comm.)

Pulmonic balloon valvuloplasty in adults (Sherman et al). 1990;119:186-90 (Brief comm.)

**Pulmonary veno-occlusive disease**

Long-term oral diazoxide therapy for pulmonary vascular obstructive disease associated with congenital heart defects (Rao). 1990;119:1317-21

**Pulmonary wedge pressure**

Baseline and post-atrial pacing release of atrial natriuretic factor in mitral stenosis (Malatino et al). 1990;119:97-101

**Pulmonic stenosis; see Pulmonary valve stenosis****Pulse**

Atrial alternans (Bricker and Murphy). 1990;119:412-4 (Brief comm.)

**Pulsus alternans; see Heart rate****R****Radionuclide angiography**

Appraisal of false positive results in nuclear cardiac imaging (Iskandrian and Heo). 1990;119:708-9 (Editorial)

Walk-through angina treated by percutaneous transluminal coronary angioplasty: electrocardiographic, radionuclide, and angiographic correlations (Ratner and Schwartz). 1990;119:390-2 (Brief comm.)

**Radionuclide imaging**

Appraisal of false positive results in nuclear cardiac imaging (Iskandrian and Heo). 1990;119:708-9 (Editorial)

Evaluation of the effect of thrombolytic treatment on infarct size and left ventricular function by enzymatic, scintigraphic, and angiographic methods (Mortelmans et al). 1990;119:1231-7

# **Radionuclide imaging—Cont'd**

- Exercise-induced T wave normalization is not specific for myocardial ischemia detected by perfusion scintigraphy (Frais and Hoeschen). 1990;119:1225-9 (Brief comm.)
- Iodine-123 phenylpentadecanoic acid myocardial scintigraphy in patients with left ventricular hypertrophy: alterations in left ventricular distribution and utilization (Wolfe et al). 1990;119:1338-47
- Perioperative and long-term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease (Younis et al). 1990;119:1287-92
- Quantitative analysis of <sup>123</sup>I-meta-iodobenzylguanidine (MIBG) uptake in hypertrophic cardiomyopathy (Nakajima et al). 1990;119:1329-37

# **Ranitidine**

- H<sub>2</sub> antagonist-cardiac drug interactions (Shinn) (Letter); (Baciewicz and Baciewicz) (Reply). 1990;119:1442-4

# **Receptors, adrenergic, alpha**

- New developments in the role of  $\alpha_1$ -adrenergic receptors in cardiovascular disease (Taylor and Grimm). 1990;119:655-62 (Prog. cardiol.)

# **Receptors, adrenergic, beta**

- Evidence against spare or uncoupled  $\beta$ -adrenoceptors in the human heart (Schwinger et al). 1990;119:899-904
- Influence of anti-beta-receptor antibodies on cardiac adenylate cyclase in patients with idiopathic dilated cardiomyopathy (Limas et al). 1990;119:1322-8
- On the physiologic role of beta-2 adrenoceptors in the human heart: in vitro and in vivo studies (Motomura et al). 1990;119:608-19

# **Red blood cells; see Erythrocytes**

# **Reentrant supraventricular tachycardia; see Tachycardia, supraventricular**

# **Reentrant ventricular tachycardia; see Arrhythmia**

# **Regurgitation, aortic valve; see Aortic valve insufficiency**

# **Renal failure, chronic**

- Cardiac structure and function in continuous ambulatory peritoneal dialysis: influence of blood purification and hypercirculation (Hüting et al). 1990;119:344-52
- Short- and long-term outcome of percutaneous transluminal coronary angioplasty in chronic dialysis patients (Kahn et al). 1990;119:484-9

# **Renin**

- Hemodynamic and renin responses to nifedipine in renovascular hypertension (Fiorentini et al). 1990;119:353-6

# **Renovascular hypertension; see Hypertension, renovascular**

# **Reproducibility of results**

- Interstudy reproducibility of dimensional and functional measurements between cine magnetic resonance studies in the morphologically abnormal left ventricle (Semelka et al). 1990;119:1367-73

# **Rheology**

- Stable angina pectoris and controlled ischemia: What causes the abnormalities in whole blood filterability? (Ciuffetti et al). 1990;119:54-8

# **Rheumatic heart disease**

- Comparison of single rubber-nylon balloon and double polyethylene balloon valvuloplasty in 94 patients with rheumatic mitral stenosis (Chen et al). 1990;119:102-11
- Iatrogenic Lutembacher's syndrome after percutaneous transluminal mitral valvotomy (Chen et al). 1990;119:209-11 (Brief comm.)
- Successive percutaneous double-balloon mitral, aortic, and tricuspid valvotomy in rheumatic trivalvular stenoses (Konugres et al). 1990;119:663-6 (Brief comm.)

# **Right bundle branch block; see Bundle branch block; Heart block**

# **Risk factors**

- A new method of scoring coronary angiograms to reflect extent of coronary atherosclerosis and improve correlation with major risk factors (Sullivan et al). 1990;119:1262-7

# **Rupture, heart; see Heart rupture**

## **S**

# **Saphenous vein, transplantation**

- Morphologic findings in saphenous veins used as coronary arterial bypass conduits for longer than 1 year: necropsy analysis of 53 patients, 123 saphenous veins, and 1865 five-millimeter segments of veins (Kalan and Roberts). 1990;119:1164-84 (Prog. cardiol.)

# **Saphenous vein, transplantation—Cont'd**

- Spontaneous thrombolysis in a suboccluded saphenous vein graft (Dangoisse and Colizza). 1990;119:394-6 (Brief comm.)
- Thrombolysis with recombinant tissue plasminogen activator in late saphenous vein graft thrombosis (Blanck et al). 1990;119:952-3 (Brief comm.)

# **Scintigraphy; see Radionuclide imaging**

# **Scintigraphy, computed tomography; see Tomography, emission computed**

# **Shock, cardiogenic**

- Acute mitral regurgitation with cardiogenic shock in a patient with hypertrophic cardiomyopathy: a critical management dilemma (Hilton et al). 1990;119:1205-7 (Brief comm.)

# **Signal-averaged electrocardiogram; see Electrocardiography**

# **Sinoatrial node**

- Intrinsic heart rate in children and young adults: an index of sinus node function isolated from autonomic control (Marcus et al). 1990;119:911-6

# **Sinus node dysfunction; see Heart conduction system**

# **Sinus of Valsalva**

- Coexistence of congenital submittal and aortic sinus aneurysms (Dalvi et al). 1990;119:419-21 (Brief comm.)
- Echocardiographic identification of anomalous origin of the left circumflex coronary artery from the right sinus of Valsalva (Piovesana et al). 1990;119:205-7 (Brief comm.)

# **Sinus tachycardia, animal; see Tachycardia, sinus, animal**

# **Sodium nitrite**

- Synergism between superoxide dismutase and sodium nitrite in cardioprotection following ischemia and reperfusion (Johnson et al). 1990;119:530-7

# **Sodium-meglumine diatrizoate; see Diatrizoate meglumine**

# **Sotalol**

- Coadministration of flecainide acetate and sotalol during pregnancy: lack of teratogenic effects, passage across the placenta, and excretion in human breast milk (Wagner et al). 1990;119:700-2 (Brief comm.)

# **Sports**

- ECG variants and cardiac arrhythmias in athletes: clinical relevance and prognostic importance (Zehender et al). 1990;119:1378-91 (Curriculum cardiol.)

# **ST 567; see Alinidine**

# **ST segment; see Electrocardiography**

# **Stab wounds; see Wounds, stab**

# **Starr-Edwards prosthesis**

- Diagnosis of infective endocarditis on a Starr-Edwards prosthesis by transesophageal echocardiography (Culver et al). 1990;119:972-3 (Brief comm.)

# **Streptokinase**

- Value of immediate angioplasty after intravenous streptokinase in acute myocardial infarction (El Deeb et al). 1990;119:786-90

# **Stroke; see Cerebrovascular disorders entries**

# **Stroke volume**

- Effect of intracoronary contrast medium on left ventricular diastolic pressure-volume relationships (Klów et al). 1990;119:59-63
- Serial evaluation of right ventricular dysfunction associated with acute inferior myocardial infarction (Yasuda et al). 1990;119:816-22

# **Submittal aneurysm; see Aneurysm**

# **Subpulmonic membrane; see Pulmonary valve stenosis**

# **Sudden death; see Death, sudden**

# **Sulfonylurea compounds**

- Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias (Bekheit et al). 1990;119:1025-33

# **Superoxide dismutase**

- Effect of polymorphonuclear leukocyte-derived oxygen free radicals and hypochlorous acid on cardiac function and some biochemical parameters (Prasad et al). 1990;119:538-50
- Synergism between superoxide dismutase and sodium nitrite in cardioprotection following ischemia and reperfusion (Johnson et al). 1990;119:530-7

# **Survival**

- Impact of atrial fibrillation on the in-hospital and long-term survival of patients with acute myocardial infarction: a community-wide perspective (Goldberg et al). 1990;119:996-1001



**Survival—Cont'd**

- Long-term outcome of unsuccessful percutaneous transluminal coronary angioplasty (Tuzcu et al). 1990;119:791-6
- Ten-year survival of patients with mild angina or myocardial infarction without angina: a comparison of medical and surgical treatment (Proudfit et al). 1990;119:942-8 (Prog. cardi-ol.)

**Sympathetic nervous system**

- Use of heart rate spectral analysis to study the effects of calcium channel blockers on sympathetic activity after myocardial infarction (Bekheit et al). 1990;119:79-85

**Systemic lupus erythematosus; see Lupus erythematosus, systemic****T****Tachycardia**

- Acute treatment of torsades de pointes with amiodarone: proarrhythmic and antiarrhythmic association of QT prolongation (Rankin et al). 1990;119:185-6 (Brief comm.)
- Benefit and risks of long-term amiodarone therapy for sustained ventricular tachycardia/fibrillation: minimum of three-year follow-up in 145 patients (Myers et al). 1990;119:8-14
- Clinical efficacy of dual electrode systems for endocardial cardioversion of ventricular tachycardia: a prospective randomized crossover trial (Saksena and An). 1990;119:15-22
- Comparison of QRS morphologies of spontaneous premature ventricular complexes and ventricular tachycardia induced by programmed stimulation (Anderson et al). 1990;119:1302-11
- Hemodynamic effects of intravenous procainamide during ventricular tachycardia (Sharma et al). 1990;119:1034-41
- Selecting therapy for sustained ventricular tachycardias: importance of the sensitivity and specificity of programmed electrical stimulation for predicting arrhythmia recurrences (Stevenson et al). 1990;119:871-7
- Significance of ventricular tachyarrhythmias complicating cardiac catheterization: a CASS Registry study (Epstein et al). 1990;119:494-502

**Tachycardia, animal**

- Inducible monomorphic sustained ventricular tachycardia in the conscious pig (Kirby et al). 1990;119:1042-9

**Tachycardia, atrioventricular nodal reentry**

- Spontaneous atrioventricular dissociation in atrioventricular nodal reentrant tachycardia (Wang et al). 1990;119:1426-9 (Brief comm.)

**Tachycardia, child**

- Control of multiform ventricular tachycardia by propranolol in a child with no identifiable cardiac disease and sudden death (de Paola et al). 1990;119:1429-32 (Brief comm.)

**Tachycardia, paroxysmal**

- Participation of a concealed nodoventricular fiber in the genesis of paroxysmal tachycardias (Wu et al). 1990;119:583-91

**Tachycardia, paroxysmal, child**

- Atenolol in children with ventricular arrhythmias (Trippel and Gillette). 1990;119:1312-6

**Tachycardia, sinoatrial nodal reentry, animal**

- Reentrant ventricular arrhythmias in the late myocardial infarction period. 17. Correlation of activation patterns of sinus and reentrant ventricular tachycardia (Assadi et al). 1990;119:1014-24

**Tachycardia, sinus, animal**

- Reentrant ventricular arrhythmias in the late myocardial infarction period. 17. Correlation of activation patterns of sinus and reentrant ventricular tachycardia (Assadi et al). 1990;119:1014-24

**Tachycardia, supraventricular**

- Adenosine or adenosine triphosphate for supraventricular tachycardias? Comparative double-blind randomized study in patients with spontaneous or inducible arrhythmias (Rankin et al). 1990;119:316-23
- Prospective evaluation of parenteral magnesium sulfate in the treatment of patients with reentrant AV supraventricular tachycardia (Sager et al). 1990;119:308-16

**Takayasu syndrome**

- Isolated bilateral coronary ostial stenosis in Takayasu's arteritis (Emi et al). 1990;119:962-4 (Brief comm.)

**Tamponade, cardiac; see Cardiac tamponade****<sup>99m</sup>Tc-sestamibi**

- Relationship between regional myocardial blood flow and the distribution of <sup>99m</sup>Tc-sestamibi in the presence of total coronary artery occlusion (Mousa et al). 1990;119:842-7

**Technetium**

- Relationship between regional myocardial blood flow and the distribution of <sup>99m</sup>Tc-sestamibi in the presence of total coronary artery occlusion (Mousa et al). 1990;119:842-7

**Technology assessment, biomedical**

- Medical management and managing medical care: the dilemma of evaluating new technology (Bloom). 1990;119:754-61 (Symposium)

**Tetralogy of Fallot**

- Right ventricular pseudoaneurysm following repair of tetralogy of Fallot (Wheller et al). 1990;119:1207-9 (Brief comm.)

**Thallium radioisotopes**

- Appraisal of false positive results in nuclear cardiac imaging (Iskandrian and Heo). 1990;119:708-9 (Editorial)
- Early assessment of tissue viability with radioiodinated heptadecanoic acid in reperfused canine myocardium: comparison with thallium-201 (Chappuis et al). 1990;119:833-41
- Exercise-induced silent myocardial ischemia: evaluation by thallium-201 emission computed tomography (Kurata et al). 1990;119:557-67
- Exercise-induced silent myocardial ischemia in patients with vasospastic angina (Aoki et al). 1990;119:551-6
- Is dipyridamole-thallium imaging preferable to submaximal exercise thallium testing for risk stratification after thrombolysis? (Lette et al). 1990;119:671-2 (Brief comm.)
- Perioperative and long-term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease (Younis et al). 1990;119:1287-92
- Pulmonary thallium uptake: correlation with systolic and diastolic left ventricular function at rest and during exercise (Mannting). 1990;119:1137-46

**Thiazide diuretics; see Diuretics, thiazide****Thoracic aorta; see Aorta, thoracic****Thrombocytopenia**

- Heparin-induced thrombocytopenia and arterial thrombosis: alternative therapies (Cola and Ansell). 1990;119:368-74 (Curriculum cardiol.)

**Thrombolytic therapy**

- Combined mechanical and chemical thrombolysis in an experimental animal model: evaluation by angiography and angiography (Ritchie et al). 1990;119:64-72
- The electrocardiographic diagnosis of acute myocardial infarction in the thrombolytic era (Schweitzer). 1990;119:642-54 (Curriculum cardiol.)
- Evaluation of the effect of thrombolytic treatment on infarct size and left ventricular function by enzymatic, scintigraphic, and angiographic methods (Mortelmans et al). 1990;119:1231-7
- Is dipyridamole-thallium imaging preferable to submaximal exercise thallium testing for risk stratification after thrombolysis? (Lette et al). 1990;119:671-2 (Brief comm.)
- One-year outcome after therapy with tissue plasminogen activator: report from the Thrombolysis and Angioplasty in Myocardial Infarction trial (Califf et al). 1990;119:777-85
- Superiority of warfarin over aspirin long term after thrombolytic therapy for acute myocardial infarction (Schreiber et al). 1990;119:1238-44
- Thrombolysis with recombinant tissue plasminogen activator in late saphenous vein graft thrombosis (Blanck et al). 1990;119:952-3 (Brief comm.)
- Thrombolytic therapy in coronary ectasia and acute myocardial infarction (Rab et al). 1990;119:955-7 (Brief comm.)
- Urgent surgical removal of a rapidly growing left ventricular thrombus following acute myocardial infarction (Leor et al). 1990;119:1199-201 (Brief comm.)
- Value of immediate angioplasty after intravenous streptokinase in acute myocardial infarction (El Deeb et al). 1990;119:786-90

**Thrombosis**

- Aortic thrombosis and peripheral embolization after thoracic gunshot wound diagnosed by transesophageal echocardiography (Bergin). 1990;119:688-90 (Brief comm.)



# **Thrombosis—Cont'd**

- Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator (Mügge et al). 1990;119:1437-9 (Brief comm.)
- The effects of long-term antithrombotic treatment on left ventricular thrombi in patients after an acute myocardial infarction (Kouvaras et al). 1990;119:73-8
- Heparin-induced thrombocytopenia and arterial thrombosis: alternative therapies (Cola and Ansell). 1990;119:368-74 (Curriculum cardi.)
- Spontaneous thrombolysis in a suboccluded saphenous vein graft (Dangoisse and Colizza). 1990;119:394-6 (Brief comm.)

# **Thrombosis, animal**

- Combined mechanical and chemical thrombolysis in an experimental animal model: evaluation by angiography and angiography (Ritchie et al). 1990;119:64-72

# **Thromboxane B<sub>2</sub>**

- Sustained-release nifedipine (nifedipine-L) suppresses plasma thromboxane B<sub>2</sub> and 6-keto prostaglandin F<sub>1α</sub> in both young male smokers and nonsmokers (Nakashima et al). 1990;119:1267-73

# **Tissue-type plasminogen activator; see Plasminogen activator, tissue-type**

# **Tomography, emission computed**

- Evaluation of the effect of thrombolytic treatment on infarct size and left ventricular function by enzymatic, scintigraphic, and angiographic methods (Mortelmans et al). 1990;119:1231-7

- Exercise-induced silent myocardial ischemia: evaluation by thallium-201 emission computed tomography (Kurata et al). 1990;119:557-67

- Iodine-123 phenylpentadecanoic acid myocardial scintigraphy in patients with left ventricular hypertrophy: alterations in left ventricular distribution and utilization (Wolfe et al). 1990;119:1338-47

- Quantitative analysis of <sup>123</sup>I-meta-iodobenzylguanidine (MIBG) uptake in hypertrophic cardiomyopathy (Nakajima et al). 1990;119:1329-37

# **Tomography, x-ray computed**

- Cardiac lipoma in the interventricular septum: evaluation by computed tomography and magnetic resonance imaging (Kamiya et al). 1990;119:1215-7 (Brief comm.)

- Coronary artery-to-left ventricle communication with abnormal regional coronary flow demonstrated by ultrafast computed tomography (Marshall et al). 1990;119:677-9 (Brief comm.)

# **Torsade de pointes; see Tachycardia**

# **Transcatheter ablation; see Electrocoagulation**

# **Transesophageal echocardiography; see Echocardiography; Echocardiography, transesophageal**

# **Transplantation, heterotopic**

- Morphologic findings in saphenous veins used as coronary arterial bypass conduits for longer than 1 year: necropsy analysis of 53 patients, 123 saphenous veins, and 1865 five-millimeter segments of veins (Kalan and Roberts). 1990;119:1164-84 (Prog. cardi.)

# **Transplantation, homologous**

- Angina and threatened acute myocardial infarction after cardiac transplantation (Ramsdale and Bellamy). 1990;119:1195-7 (Brief comm.)

- Delayed recovery of revascularized myocardium after referral for cardiac transplantation (Luu et al). 1990;119:668-70 (Brief comm.)

- The scalar electrocardiogram of the orthotopic heart transplant recipient (Sandhu et al). 1990;119:917-23

# **Trauma; see Wounds entries**

# **Tremor**

- Amiodarone toxicity: myopathy and neuropathy (Roth et al). 1990;119:1223-5 (Brief comm.)

# **Tricuspid regurgitation; see Tricuspid valve insufficiency**

# **Tricuspid valve insufficiency**

- Delayed rupture of tricuspid papillary muscle following blunt chest trauma (Hilton et al). 1990;119:1410-2 (Brief comm.)

- Significance of laminar systolic regurgitant flow in patients with tricuspid regurgitation: a combined pulsed-wave, continuous-wave Doppler and two-dimensional echocardiographic study (Minagoe et al). 1990;119:627-35

# **Tricuspid valve stenosis**

- Combined percutaneous balloon valvuloplasty of mitral and tricuspid valves (Bethencourt et al). 1990;119:416-8 (Brief comm.)

- Successful percutaneous balloon valvuloplasty of a stenotic tricuspid bioprosthesis (Chow et al). 1990;119:666-8 (Brief comm.)

- Successive percutaneous double-balloon mitral, aortic, and tricuspid valvotomy in rheumatic trivalvular stenoses (Konugres et al). 1990;119:663-6 (Brief comm.)

# **U**

# **Ultrasonic diagnosis**

- Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography (Schwartz et al). 1990;119:196-9 (Brief comm.)

- Assessment of normal and atherosclerotic arterial wall thickness with an intravascular ultrasound imaging catheter (Mallery et al). 1990;119:1392-1400 (Prog. cardi.)

- Isolated congenital left ventricular diverticulum—echocardiographic features in a fetus (Kitchiner et al). 1990;119:1435-7 (Brief comm.)

- Perioperative surface and transesophageal color-flow Doppler evaluation of post-traumatic intracardiac shunt (Lindenbaum et al). 1990;119:193-6 (Brief comm.)

# **V**

# **Valvular aortic stenosis; see Aortic valve stenosis**

# **Vascular diseases**

- Long-term oral diazoxide therapy for pulmonary vascular obstructive disease associated with congenital heart defects (Rao). 1990;119:1317-21

- Perioperative and long-term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease (Younis et al). 1990;119:1287-92

# **Vascular resistance**

- Arterial baroreceptor control of peripheral vascular resistance in experimental heart failure (Wilson et al). 1990;119:1122-30

# **Vasculitis**

- Intramural coronary angitis of periarteritis nodosa proved by endomyocardial biopsy (Sugihara et al). 1990;119:1414-6 (Brief comm.)

# **Vasodilation**

- Ethanol-induced coronary vasodilation in patients with and without coronary artery disease (Cigarroa et al). 1990;119:254-9

# **Vectorcardiography**

- Comparative accuracy of the vectorcardiogram and electrocardiogram in the localization of the accessory pathway in patients with Wolff-Parkinson-White syndrome: validation of a new vectorcardiographic algorithm by intraoperative epicardial mapping and electrophysiologic studies (Giorgi et al). 1990;119:592-8

# **Vegetations; see Endocarditis, bacterial; Heart neoplasms**

# **Ventricle; see Heart ventricle entries**

# **Ventricular aneurysm; see Aneurysm**

# **Ventricular arrhythmia; see Arrhythmia**

# **Ventricular effective refractory period; see Heart ventricle, physiology**

# **Ventricular ejection fraction; see Stroke volume**

# **Ventricular end-diastolic volume; see Stroke volume**

# **Ventricular fibrillation**

- Benefit and risks of long-term amiodarone therapy for sustained ventricular tachycardia/fibrillation: minimum of three-year follow-up in 145 patients (Myers et al). 1990;119:8-14

- Clinical efficacy of dual electrode systems for endocardial cardioversion of ventricular tachycardia: a prospective randomized crossover trial (Saksena and An). 1990;119:15-22

- Right ventricular infarction as a risk factor for ventricular fibrillation during pulmonary artery catheterization using Swan-Ganz catheters (López-Sendon et al). 1990;119:207-9 (Brief comm.)

**Ventricular fibrillation—Cont'd**

Significance of ventricular tachyarrhythmias complicating cardiac catheterization: a CASS Registry study (Epstein et al). 1990;119:494-502

**Ventricular fibrillation, child**

Control of multiform ventricular tachycardia by propranolol in a child with no identifiable cardiac disease and sudden death (de Paola et al). 1990;119:1429-32 (Brief comm.)

**Ventricular outflow obstruction**

Left ventricular outflow obstruction caused by mitral ring calcification (Iga and Hori). 1990;119:418-9 (Brief comm.)

**Ventricular tachycardia; see Tachycardia****Ventricular volume; see Cardiac volume****Verapamil**

Verapamil but not nifedipine impairs left ventricular function during exercise in hypertensive patients (Ashmore et al). 1990;119:636-41

**Viremia**

The effects of exercise during viremia on the signal-averaged electrocardiogram (Vacek and Smith). 1990;119:702-5 (Brief comm.)

**W****Warfarin**

Superiority of warfarin over aspirin long term after thrombolytic therapy for acute myocardial infarction (Schreiber et al). 1990;119:1238-44

**Wenckebach phenomenon; see Heart block****White blood cells; see Leukocytes****Whole blood filterability; see Rheology****Wolff-Parkinson-White syndrome**

Comparative accuracy of the vectorcardiogram and electrocardiogram in the localization of the accessory pathway in patients with Wolff-Parkinson-White syndrome: validation of a new vectorcardiographic algorithm by intraoperative epicardial mapping and electrophysiologic studies (Giorgi et al). 1990;119:592-8

**Wounds, gunshot**

Aortic thrombosis and peripheral embolization after thoracic gunshot wound diagnosed by transesophageal echocardiography (Bergin). 1990;119:688-90 (Brief comm.)

**Wounds, nonpenetrating**

Delayed rupture of tricuspid papillary muscle following blunt chest trauma (Hilton et al). 1990;119:1410-2 (Brief comm.)

Emergency PTCA for coronary artery occlusion after blunt chest trauma (Sigmund et al). 1990;119:1408-10 (Brief comm.)

**Wounds, stab**

Perioperative surface and transesophageal color-flow Doppler evaluation of post-traumatic intracardiac shunt (Lindenbaum et al). 1990;119:193-6 (Brief comm.)

**X****X syndrome; see Angina pectoris**

